CATALOGUE

OF THE

UNIVERSITY OF ARKANSAS

FOR 1911-12

ANNOUNCEMENT FOR 1912-1913

FOUNDED MARCH 27, 1871

FAYETTEVILLE, ARKANSAS

1912

JULY						
S	M	T	W	T	F	S
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1913

JANUARY						
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JUNE						
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CALENDAR, 1912-1913

1912.

MAY 30. Memorial Day—a Holiday—Thursday.
MAY 31. Final Examinations Begin in the Departments at Fayetteville—Friday.
JUNE 3. Memorial Day—a Holiday—Monday.
JUNE 9. Baccalaureate Sermon, U. of A. Chapel—Sunday.
JUNE 12. *Commencement*—Wednesday.
JUNE 17. Summer Session Begins at Fayetteville—Monday.
JULY 27. Summer Session Ends—Saturday.
SEPT. 16. Regular Session Begins in the Medical School, Little Rock—Monday.
SEPT. 16. Fall Term Begins in the Law School, Little Rock—Monday.
SEPT. 18. *Academic Year* Begins in all Departments at Fayetteville—Wednesday.
SEPT. 18-21. Examinations for admission to B. A., Engineering, Scientific, and Normal Courses—Wednesday to Saturday.

1913.

JAN. 18. Fall Term of Law School Ends—Saturday.
JAN. 20. Spring Term of Law School Begins—Monday.
JAN. 25. Mid-Year Examinations Begin in the Departments at Fayetteville—Saturday.
FEB. 1. First Term Ends in all Departments at Fayetteville—Saturday.
FEB. 3. Second Term Begins in all Departments at Fayetteville—Monday.
May 9. Regular Session Ends in the Medical School, Little Rock—Saturday.
MAY 29. Final Examinations Begin in the Departments at Fayetteville—Thursday.
MAY 30. Memorial Day—a Holiday—Friday.
JUNE 3. Memorial Day—a Holiday—Tuesday.
JUNE 8. Baccalaureate Sermon, U. of A. Chapel—Sunday.
JUNE 11. *Commencement*—Wednesday.

DEPARTMENTS OF THE UNIVERSITY

The University comprehends the following departments:

At Fayetteville:

THE COLLEGE OF LIBERAL ARTS, SCIENCES, AND ENGINEERING.

THE COLLEGE OF AGRICULTURE.

THE AGRICULTURAL EXPERIMENT STATION.

THE CONSERVATORY OF MUSIC AND ART.

At Little Rock:

THE MEDICAL SCHOOL.

THE SCHOOL OF PHARMACY.

THE LAW SCHOOL.

At Pine Bluff:

THE BRANCH NORMAL COLLEGE

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Little Rock.

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State Superintendent of Public Instruction and ex-Officio Member of the Board of Trustees.
Little Rock.

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To serve until January, 1915.

Hon. FRANCIS P. HALL,
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On the Agricultural College,
TRUSTEES TURNER, HERBERT, McKENZIE.

On the Mechanical Department,
TRUSTEES JONES, BREWSTER, TURNER.

On Printing,
TRUSTEES REID, JONES, HERBERT.

On Teachers,
TRUSTEES COOK, HALL, REID.

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TRUSTEES REID, HALL, PRESIDENT TILLMAN.

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Committee on the Agricultural Department, President of the University, Director of the Station.

THE FACULTY

JOHN NEWTON TILLMAN, LL. D.....421 N. College Ave.
President of the University.

Representing the College of Liberal Arts, Sciences, and Engineering.

JOHN CLINTON FUTRALL, M. A.....226 N. College Ave.
Professor of Ancient Languages.

GEORGE WESLEY DROKE, A. M.....103 Hill St.
Professor of Mathematics and Astronomy.

JULIUS JAMES KNOCH, M. S., C. E.....402 N. College Ave.
Professor of Civil Engineering.

WILLIAM NATHAN GLADSON, M. S., E. E., Ph. D., 820 W. Maple St.
Professor of Electrical Engineering.

*ALBERT HOMER PURDUE, A. B.....538 Leverett St.
Professor of Geology.

FRANK WELBORN PICKEL, A. B., M. Sc., 808 W. Maple St.
Professor of Biology.

WILLIAM SMYTHE JOHNSON, Ph. D., 346 Arkansas Ave.
Professor of Philosophy and Pedagogy.

**JOHN HUGH REYNOLDS, A. M.....814 W. Maple St.
Professor of History and Political Science.

BIRTON NEILL WILSON, B. Sc., M. E., 241 N. College Ave.
Professor of Mechanical Engineering.

CHARLES HILLMAN BROUGH, A. M., LL. B., Ph. D., 241 N. College Ave.
Professor of Economics and Sociology.

CHARLES GEIGER CARROLL, A. M., Ph. D., 732 W. Maple St.
Professor of Chemistry.

EDGAR FINLEY SHANNON, A. B.....15 S. Duncan St.
Professor of English.

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*Absent on leave after March 1, 1912.

**Absent on leave from October, 1911, to April, 1912.

ANTONIO MARINONI, A. M. ..... Ida Ave.
Professor of Romance Languages.

GILES EMMET RIPLEY, B. S., M. S. ..... 108 S. Duncan St.
Professor of Physics.

ALVIN ARTHUR STEEL, B. S. in C. E., E. M., 613 Highland Ave.
Professor of Mining.

ROBERT D. CARTER (Captain 8th Infantry, United States Army) ..... 228 W. Center St.
Commandant and Professor of Military Science and Tactics.

WALTER MATTHEW BRISCOE, A. B. ..... Ida Ave.
Professor of German

BOLLING JAMES DUNN, M. A. ..... 116 S. Church St.
Associate Professor of Mathematics.

VIRGIL PROCTOR KNOTT, B. C. E. ..... 15 E. Spring St.
Associate Professor of Civil Engineering.

LEE SEDWICK OLNEY, B. E. E. ..... R. F. D. No. 2
Associate Professor of Electrical Engineering.

DAVID YANCEY THOMAS, Ph. D. ..... 110 Fairview Ave.
Associate Professor of History and Political Science.

GUSTAVUS GARLAND GREEVER, A. M., 753 W. Dickson St.
Associate Professor of English.

MAX CARL GUENTHER LENTZ ..... 204 W. Dickson St.
Associate Professor of Germanic Languages.

*FARRAR NEWBERRY, A. B., A. M. ..... 814 W Maple St.
Associate Professor of History and Political Science

Representing the College of Agriculture.

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D., 125 N. East St.
Dean.

ROBERT ROBSON DINWIDDIE, M. D., V. S., 728 W. Maple St.
Professor of Pathology and Bacteriology.

ERNEST WALKER, B. S. A. ..... 524 Leverett St.
Professor of Horticulture.

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*From September, 1911, to April, 1912.

MARTIN NELSON, B. S. A., M. S. ..... 415 Wash. Ave.
Professor of Agronomy.

JOSEPH LEE HEWITT, B. S. ..... 9 E. Spring St.
Professor of Plant Pathology.

J. F. STANFORD, D. V. S. ..... West Maple St.
Professor of Veterinary Science.

CARL H. TOURGEE, B. S. A. ..... Watson St.
Professor of Dairying.

R. C. THOMPSON, B. S. ..... 618 W. Maple St.
Professor of Agricultural Chemistry.

*PAUL HAYHURST, A. B. ..... 95 S. Duncan St.
Professor of Entomology.

CARL CHRISTOPHER, B. S., M. S. ..... 125 N. East St.
Professor of Animal Husbandry.

*GEORGE ALBERT COLE, B. S.; A. M.
Superintendent of Extension.

J. MELVIN WILSON, B. S. ..... 216 W. Dickson St.
Professor of Extension.

Representing the Department of Secondary Education.

B. W. TORREYSON ..... Little Rock
Professor of Secondary Education.

Representing the Conservatory of Music and Art.

HENRY DOUGHTY TOVEY ..... 614 Ida Ave.
Director and Instructor in Piano, Organ, Theory and History of Music.

Representing the Department of Physical Culture and Athletics.

HUGO BEZDEK, S. B. ..... Ozark Ave.
Professor of Physical Culture and Director of Athletics.

---

*Resigned.

Representing the Medical School (Little Rock).

JAMES H. LENOW, A. M., M. D.,
Dean of the Medical Faculty.

Representing the Law School (Little Rock).

JOHN HUGH CARMICHAEL, LL. B.,
Dean of the Law School and Professor of Contracts, Domestic Relations, Judgments, Constitutional Law, Conflict of Laws.

OTHER OFFICERS OF INSTRUCTION

The College of Liberal Arts, Sciences, and Engineering.

HUGH ELLIS MORROW, B. S. A.....305 Lafayette Ave.
Associate Professor of Chemistry.

NEIL CAROTHERS, B. A.....717 W. Dickson St.
Associate Professor of Economics and Sociology.

BRAINERD MITCHELL, JR. M. E....., S. Duncan St.
Associate Professor of Mechanical Engineering.

ARTHUR M. HARDING, B. A.....214 E. Lafayette Ave.
Associate Professor of Mathematics.

VIRGIL M. JONES, Ph. D.
Associate Professor of English.

WILLIAM BOYD STELZNER, B. E. E...223 N. College Ave.
Adjunct Professor of Electrical Engineering.

FRANK C. HAWKINS, B. A..... W. Mountain St.
Adjunct Professor of Ancient Languages.

HERMAN W. DEAN.....314 W. Mountain St.
Instructor in Mechanical Engineering.

ROSE BLAND, B. A.....703 W. Dickson St.
Training Teacher in University Normal School.

JOSEPHINE M. DROKE, B. A.....103 Hill St.
Instructor in Mathematics.

PHIL C. HUNTLY, B. C. E..... Sigma Chi House
Instructor in Civil Engineering.

WILLIAM EDGAR DUCKWORTH,
Instructor in Mechanical Engineering.

KIRTLEY F. MATHER, B. A.,
Instruction in Geology.

MARY GARNETT HARGIS..... 324 N. Coll. Ave.
Instructor in Romance Languages.

ANDREW JACKSON THOMAS, B. A. ..... 603 Leverett St.
Instructor in Physics.

J. ROGER WILLIAMS,
Instructor in English.

C. T. GOODE,
Instructor in English.

The College of Agriculture.

ROBERT M. GOW, D. V. M. ..... 415 Wash. Ave.
Adjunct Professor of Veterinary Science.

CHARLES V. RUZEK, B. S. A. ..... 412 Lafayette St.
Adjunct Professor of Agronomy.

W. C. LASSETTER, B. S. A. ..... 225 College Ave.
Adjunct Professor of Agronomy.

*JAMES YOWELL, B. S. A.,
Assistant Animal Husbandman.

H. E. STEVENS, B. S. A., M. S. ..... 620 W. Maple St.
Assistant in Plant Pathology.

GEO. G. BECKER, B. S. A. ..... 328 College Ave.
Assistant in Entomology.

J. M. BORDERS, B. S. A. ..... 712 W. Maple St.
Assistant in Extension.

H. S. MOBLEY,
Assistant in Extension.

J. R. TUCKER, B. S. A ..... 158 Hill St.
Assistant in Agr. Chemistry.

W. L. NETTLESHIP,
Assistant in Dairying.

---

*Resigned.

The Conservatory of Music and Art.

WILLIE VANDEVENTER-CROCKETT, 318 W. Lafayette Ave.
Expression and Physical Education.

MARY CUMMINGS BATEMAN..... 324 N.College Ave.
Voice.

ELIZABETH GALBRAITH.....Arkansas Bldg.
Art.

EVELYN METZGER,
Assistant in Art.

MABEL BELL.....Spring St.
Piano and History.

LOUISE WILLIAMS.....Washington Ave.
Piano.

BLANCHE HOYT,
Accompanist.

EUTHA HARRIS.....Washington Ave.
Assistant in Voice.

KATISUE MOORE,
Assistant in Physical Education.

W. EDWIN DOUGLASS,
Secretary.

OTHER OFFICERS.

MRS. MARY L. AUSTIN,
Librarian.

RICHARD C. WALDRON,
Assistant Librarian.

ALBERT HOMER PURDUE, B. A.,
Curator of Museum.

BIRTON NEILL WILSON, B. Sc., M. E.,
Superintendent of Mechanic Arts.

BRAINERD MITCHELL, JR.,
Assistant Superintendent of Mechanic Arts.

MARY A. DAVIS,
Dean of Women.

FRANK BARR,
Instructor of the Cadet Band.

NELSON PULLIAM,
Secretary to the President.

B. W. DICKSON, A. B.,
General Secretary of the Y. M. C. A

ELMA MORGAN,
Secretary of the Y. W. C. A.

EUNICE BURNS,
Superintendent of Boys' Dormitories.

MRS. F. S. PARKE,
Superintendent of Girls' Dormitory.

W. T. CRIPPIN,
Engineer.

THE AGRICULTURAL EXPERIMENT STATION.
Fayetteville.

JOHN NEWTON TILLMAN, LL. D.,
President of the University.

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,
Director,

ROBERT ROBSON DINWIDDIE, M. D., V. S.,
Pathologist and Bacteriologist.

ERNEST WALKER, B. S. A.,
Horticulturist.

MARTIN NELSON, B. S. A., M. S.,
Agronomist.

JOSEPH LEE HEWITT, B. S.,
Plant Pathologist.

J. F. STANFORD, V. S.,
Veterinarian.

*CARL H. TOURGEE, B. S. A.,
Dairyman.

R. C. THOMPSON, B. S.,
Chemist.

*PAUL HAYHURST, A. B.,
Entomologist.

CARL CHRISTOPHER, B. S., M. S.,
Animal Husbandman.

R. M. GOW, D. V. M.,
Assistant Veterinarian.

CHARLES V. RUZEK, B. S. A.,
Assistant Agronomist.

W. C. LASSETTER, B. S. A.,
Assistant Agronomist.

*JAMES YOWELL, B. S. A.,
Assistant Animal Husbandman.

H. E. STEVENS, B. S. A., M. S.,
Assistant Plant Pathologist.

GEO. G. BECKER, B. S. A.,
Assistant Entomologist.

J. R. TUCKER, B. S. A.,
Assistant in Agr. Chemistry.

---

*Resigned.

W. L. NETTLESHIP,
Assistant in Dairying.

L. L. WOOTTEN, A. B.,
Executive Clerk.

THE MEDICAL SCHOOL.

Little Rock.

JOHN NEWTON TILLMAN, LL. D.,
President of University.

JAMES HORACE LENOW, A. M.; M.D.,
Dean.

J. P. RUNYAN, M. D.,
Vice-Dean.

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A. E. SWEATLAND, M. D.,
H. H. KIRBY, M. D.,
R. L. MAXWELL, M. D.,
D. C. WALT, M. D.,
T. E. HODGES, M. D.,
S. P. VAUGHTER, M. D.,
Anatomy, Histology and Embryology.

E. M. PEMBERTON, M. D.,
Physiology.
Laboratory Demonstrator to be supplied,

C. E. WITT, M. D.,
MILTON VAUGHAN, M. D.,
Materia Medica, Pharmacology, and Therapeutics.

A. R. STOVER, A. M., M. D.,
Chemistry.
Laboratory Demonstrator to be supplied,

DR. JOS. D. ARONSON,
L. O. THOMPSON, M. D.,
J. B. DOOLEY, M. D.,
R. C. KORY, M. D.,
Pathology, Bacteriology and Hygiene.

J. C. CUNNINGHAM, M. D.,
E. N. DAVIS, M. D.,
E. MEEK, M. D.,
Obstetrics.

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ANDERSON WATKINS, M. D.,
CHAS. HOLT, M. D.,
Surgery.

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R. W. LINDSEY, M. D.,
A. E. HARRIS, M. D.,
O. K. JUDD, M. D.,
H. H. NIEHUSS, M. D.,
A. L. CARMICHAEL, M. D.,
Medicine.

C. R. SHINAULT, M. D.,
M. D. OGDEN, M. D.,
OSCAR GRAY, M. D.,
R. L. SAXON, M. D.,
Gynecology.

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Dermatology and Syphilology.

JAMES H. LENOW, A. M., M. D., Dean
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Genito-Urinary Diseases.

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Pediatrics.

F. VINSONHALER, M. D.,
Ophthalmology.

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Otology.

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Psychiatry.

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Neurology.

J. VINCENT FALISI, M. D.,
C. P. MERIWETHER, M. D.,
Proctology.

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L. D. REAGAN, M. D.,
Electo-Therapeutics and Roentgenology.

Y. E. WHITMORE, D. D. S.,
Stomatology.

M. E. DUNAWAY, A. B., LL. D.,
Medical Jurisprudence.

THE SCHOOL OF PHARMACY

Faculty

JAMES H. LENOW, A. M., M. D.,
Dean.

J. P. RUNYAN, M. D.,
Vice-Dean.

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Professor of Practical Pharmacy.

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F. J. PITTMAN, Ph. G.,
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Professor of Chemistry.

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Professor of Botany, Materia Medica and Physiology.

J. W. MEHAFFY, A. B., LL. D.,
Professor of Pharmaceutical Jurisprudence.

J. F. ENGLAND, Ph. G.,
Associate Professor of Chemistry
Associate Professor of Botany, Materia Medica and Physiology.

THE LAW SCHOOL.

Little Rock.

JOHN NEWTON TILLMAN, LL. D.,
President of University.

J. H. CARMICHAEL, LL. D., DEAN,
Contracts, Domestic Relations, Conflict of Laws, Judgments.

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Real Property.

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Law of Evidence.

TOM M. MEHAFFY, LL. B.,
Law of Torts.

JACOB TRIEBER, LL. B.,
Federal Procedure.

WALTER G. RIDDICK, LL. B.,
Law of Insurance.

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Agency, Corporations, Negotiable Instruments, Pleading and Practice.

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Fraudulent Conveyances.

J. W. HOUSE, Jr., LL. B.,
Law of Sales.

R. E. WILEY, LL. B.,
Law of Bankruptcy.

W. B. BROOKS, LL. B.,
Constitutional Law, Real Property—Junior.

R. C. POWERS, LL. B.,
Partnership, Bailments.

GEORGE VAUGHAN, LL. B.,
Abstracting and Searching Titles.

THE BRANCH NORMAL COLLEGE.

Pine Bluff.

FREDERICK THOMAS VENEGAR, PRINCIPAL,
Mathematics and Agriculture.

CHRISTINE RAMBO,
Music and Language.

ERNESTINE COPELAND,
Dressmaking.

WILLIAM STEPHENS HARRIS,
Superintendent of Mechanic Arts.

JAMES LINCOLN ROSS,
Machine Shop and Forge.

IRENE V. COLEMAN,
Drawing, Millinery and Geography.

NELLIE POTTS,
Composition, Rhetoric and Reading.

HAL. M. TAYLOR,
Civil Government and Pedagogy.

J. G. ISH, JR.,
History and Agriculture.

A. R. REEVES,
Mathematics and Agriculture.

COMMITTEES OF THE FACULTY.

NOTE—Professors Johnson, Purdue, and Reynolds are a committee appointed to advise with students who expect to become high school teachers. Such students should consult with the committee before classification. This will not prevent a student from taking his major in any subject. In each case the student's major professor will be considered a member of the committee.

The President of the University is *ex-officio* a member of all Standing Committees.

ON DISCIPLINE—Professors Gladson and Pickel.

ON DOUBTFUL CASES—Professors Knoch, Reynolds, and Carroll.

ON CLASSIFICATIONS AND PETITIONS—B. A. Students, Professors Purdue, Shannon, and Droke; B. M. E. Students, Professor B. N. Wilson; B. C. E. Students, Professor Knoch; B. E. E. Students, Professor Gladson; B. Mi. E. Students, Professor Steel; B. Ch. E. and B. S. C. Students, Professor Carroll; B. S. A. Students, Professor Adams; Conservatory Students, Director Tovey.

ON ACCREDITED SCHOOLS—Professors Reynolds, Dunn, Carroll, Greever, and Hewitt.

ON THE LIBRARY—Professors Shannon, Reynolds, Purdue; and Mrs. Austin.

ON THE CATALOGUE—Professors Futrall, Knoch, Marinoni, and Nelson.

ON THE SCHEDULE—Professors Futrall, Purdue, Gladson, and Nelson.

ON EMPLOYMENT—Professors Johnson, Knoch, and Shannon.

ON ENTERTAINMENTS—Professors Wilson, Brough, and Tovey.

ON COMMENCEMENT—Professors Johnson, Droke, and Gladson.

ON ADVISERS—Professors Droke, Brough and Shannon.

ON PUBLIC APPEARANCE—Professors Futrall and Bezdek.

ON SUMMER SESSION—Professors Futrall, Marinoni, Johnson, Carroll, Reynolds, Purdue, Wannamaker, and Gladson.

ON EXTENSION—Professors Nelson, Shannon, and Gladson.

GENERAL STATEMENT

ORIGIN.

The University of Arkansas owes its origin to an act of congress, approved July 2, 1862, providing that public lands should be granted to the several states, to the amount of "30,000 acres for each senator and representative in congress," from the sale of which there should be established a perpetual fund, "the interest of which shall be inviolably appropriated by each state, which may take and claim the benefit of this act, to the endowment, support, and maintenance of at least one college, where the leading object shall be, without excluding other scientific and classical studies and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislature of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." The act forbids the use of any portion of the aforesaid fund, or of the interest thereon, for the purchase, erection, or maintenance of any building or buildings. The states accepting the provisions of the act are required to provide for the construction and maintenance of the necessary buildings, and for the expenses of administration in carrying out the purposes of the act.

The general assembly of the state of Arkansas accepted the national law by passing an act, approved March 27, 1871, which provided for the location, organization and maintenance of the University of Arkansas, and which allowed the several counties of the state to compete until a certain time for the location of the University by making public or private donations of bonds, moneys, or lands. Several individuals and communities made bids: Washington, the only county that competed, voted $100,000. Fayetteville, Washington County, voted $30,000 in addition, and was selected as the seat of the University. The institution was opened January 22, 1872.

Under an act of congress, approved March 2, 1887, the University receives $15,000 annually for the maintenance of the experiment station, "to aid in acquiring and diffusing among

the people useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." In 1906, the congress passed an act increasing this appropriation by the sum of $5,000 the first year, and providing for an additional increase of $2,000 per annum, until such increased appropriation reaches $15,000 annually.

Under an act of congress, approved August 30, 1890, the University receives $25,000 annually, "to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their application to the industries of life."

On March 4, 1907, the congress passed an act increasing this appropriation at the rate of $5,000 per annum, until the total amount appropriated annually reaches $50,000.

As required by law, three-elevenths of this sum goes to the Branch Normal College at Pine Bluff.

PURPOSE.

The University is at the head of the public educational system of the state of Arkansas. It seeks to foster the higher educational interests of the state, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its faculty and board of trustees, from year to year, to bring it into still closer articulation with the public schools of the state, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature and science, and technical education in the industrial arts and professional studies.

Through the aid received from the United States and from the state of Arkansas, the University is enabled to offer to its students free tuition, except in the studies of law, medicine, music, and art, and to open wide her doors to all seekers of learning.

LOCATION.

Four of the eight divisions of the University, viz.: the College of Liberal Arts, Sciences, and Engineering, the Conservatory of Music and Arts, the College of Agriculture, and the

Agricultural Experiment Station, are located at Fayetteville, Washington County, Arkansas. Situated in the heart of the Ozark Mountains, it is more than 1,500 feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, in beauty of surrounding scenery, in variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south of the Texas branch of the St. Louis & San Francisco Railroad, which has four trains daily each way, and various connections with other roads, both north and south. From the west students may reach Fayetteville by the Muscogee Division of the Frisco.

SUMMER SESSION.

The third Summer Session of the University will open on June 17, 1912, and close July 27.

The curriculum will consist of courses of grammar school, high school, and college grade, together with professional courses. The ideal set up for the session is highly competent instruction in the several divisions of the curriculum, and earnest, effective application on the part of the students. For the grammar school grade of work the instructors will be, in every case possible, teachers who have proven themselves in this kind of school work. There will be a practice school for demonstration of methods in grammar school work. Professor Torreyson, of the Department of Secondary Education, will give two courses for the special benefit of teachers in the secondary schools.

The high school and collegiate courses will be given mostly by members of the faculty of the University. The staff will be a thoroughly competent force comprising some of the heads of departments, some of the associate professors, and other members of the regular staff of the University.

Full information can be obtained by consulting No. 4, Volume V, of the University Bulletin, which will be mailed on application to the Dean of the Summer Session.

EQUIPMENT OF THE UNIVERSITY AT FAYETTEVILLE

UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building, two hundred and fourteen feet in length, and two wings, each one hundred and twenty-four feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, chapel, departmental libraries, general library, study halls, armory, magazine, band room, laboratories for biology, geology, and mining engineering, music and art rooms, president's and commandant's offices, natural history museum, literary society halls, toilet rooms, etc., in all, seventy rooms, together with broad corridors and stairways. The building is heated by steam, lighted by electricity, and supplied with water from the city waterworks.

ENGINEERING HALL.

Engineering Hall is located on the main driveway, just south of University Hall. It accommodates the departments of electrical, civil, and mechanical engineering, with offices, lecture rooms, and laboratories. It is built of native sandstone and pressed brick, with limestone trimmings.

The building is one hundred and fifty by fifty-eight feet, four inches, three stories high, and contains thirty-two rooms, aggregating about 26,000 square feet of floor space. A corridor divides the building from east to west and is intersected at the middle by another hallway from the front of the building, thus giving easy access to any room.

In addition to the laboratories, offices, lecture rooms, and draughting rooms of departments of engineering, there is an assembly room on the first floor for the accommodation of the engineering societies, and other gatherings too large to be accommodated in a lecture room.

The library and reading room contains engineering magazines, journals, and technical works on engineering.

COLLEGE OF AGRICULTURE AND AGRICULTURAL EXPERIMENT STATION.

The College of Agriculture and the Agricultural Experiment Station are closely related and united in their work, the personnel of their working forces being largely the same. The equipment of the Experiment Station, including field experiments and the results of investigations, is at the disposal of the college for purposes of instruction and demonstration.

The buildings include two old experiment station buildings which are devoted largely to laboratories and offices. In them are found the offices, laboratories, and such equipment as is necessary for indoor work of the departments of Pathology and Bacteriology, Horticulture, Plant Pathology, Agricultural Chemistry, Veterinary Science, and Agricultural Extension.

In the new agricultural building is found the office of the Dean and Director, Entomologist, and Agronomist, also the class rooms and laboratories of Entomology and Agronomy.

The department of Animal Husbandry and Dairying has a stone building forty-five by seventy-five feet, two stories, with cheese-curing room and complete refrigerator plant, with two cold storage rooms for butter in the basement. On the first floor is located the creamery room containing different types of pasteurizers, ripeners, and churns; the cheese-making room fully equipped for the manufacture of Cheddar cheese; and a farm dairy which has many styles of hand separators, butter workers, and churns. The second floor affords accommodation for a large lecture room, milk-testing laboratory and offices. The dairy manufactures four to five hundred pounds of butter each week throughout the year.

A greenhouse serves to keep up a stock of plants for campus and indoor decorations and offers a place for experiments and instruction in forcing and greenhouse methods.

There are also a cottage for the farm foreman, barns, and implement and tool houses for the various departments.

CHEMISTRY BUILDING.

On the first floor are located laboratories for qualitative and quantitative analysis, organic and physical chemistry, a private office and laboratory, and a balance room.

On second floor is the general lecture room, accommodating over one hundred and fifty students, with raised seats, giving each student full view of the lecturer's demonstrating table. Occupying all of one end of the second floor is the general chemistry laboratory, thirty-eight by forty-two feet, with a large balance room, storage room, and other accessories.

PHYSICS BUILDING.

The frame building formerly used as a physical laboratory was destroyed by fire in the fall of 1909. Temporary quarters have been provided for the department in Engineering Hall. The legislature has been asked for an appropriation for a building and suitable equipment.

BUCHANAN HALL.

This is a substantial and handsome brick building, three stories high, and containing over forty rooms. It is favorably located, with a view to the health of the occupants, and convenience of access to University Hall. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a side veranda in front there are three entrances to the building. There are also two rear entrances. Behind the hall a brick bath house has been erected, which contains bath and toilet rooms, supplied with cold and hot water.

HILL HALL.

In honor of Lieutenant-General Daniel Harvy Hill, C. S. A., who served ably as president of the University of Arkansas from June 16, 1877, until June 6, 1884, the name "Hill Hall" has been given the building known until 1906 as the "New Dormitory."

This structure, for which a special appropriation was made by the general assembly of 1901, is located west of University Hall, and north of Buchanan Hall, and is convenient of access to both buildings. It is a substantial brick structure, three stories high, with a foundation of range stone work, and with trimmings of dressed limestone, and contains in all some twenty-five rooms. The first story contains a commodious dining hall, thirty-eight by eighty-six feet, which is sufficiently large to

accommodate all students who occupy rooms in University dormitories. On this floor are also kitchen, storeroom, furnace room, coal bin, etc. The second and third stories contain some twenty rooms for students, besides ample corridors, stairways, etc. By the aid of the superintendent and the liberality of students and citizens a handsome suite of parlors has been tastefully and elegantly furnished. The entire building is heated by steam, lighted by electricity, and supplied with water by the city waterworks.

GRAY HALL.

This is a dormitory for young men. It is named in honor of Colonel Oliver Crosby Gray, C. S. A. Born and educated in Maine, he became thoroughly and prominently identified with the interests of the State of Arkansas. For a number of years he was Professor of Mathematics and Commandant in the University of Arkansas.

It was the purpose in the arrangement and planning of Gray Hall to provide as many bed rooms as possible with every comfort and convenience patterned after the U. S. Army barracks, with a two-story veranda extending entirely across the front.

Each of the two floors has thirty-four bed rooms and four large linen closets. The bed rooms are of an average size of twelve by fourteen feet, for two students each, with a large wardrobe and book shelves in each room, which is amply lighted by two large outside windows.

The building is one hundred and seventy-six feet in length by ninety-two feet in total depth, and is divided into groups or wings of from four to six rooms each, each group being inclosed within a brick fire wall, and all rooms being about equally distant from the two large flights of stairs.

An excellent system of steam heat is installed and connected with the general heating plant of the University.

The general exterior is good, having wide overhanging eaves with graceful roof lines, gray stone trimmings, and a good frontage, which adds to the effectiveness.

ELLA CARNALL HALL.

The dormitory for young women is named "Ella Carnall Hall" in honor of Ella Carnall, Ph. M., Associate Professor of English

and Modern Languages in the University of Arkansas, who died much beloved by both pupils and fellow-teachers, and who bequeathed to the University her library of useful works on modern philology.

Ella Carnall Hall is designed to be complete within itself, having its own toilet and bath rooms, dining room, kitchen and independent steam heating plant. The building faces south, with a frontage of one hundred and ninety feet, and an eastern and western exposure of one hundred and six feet.

The first floor contains a large parlor and a library, each thirty by thirty-four feet, and situated to the right and the left respectively of the main entrance, with a reception room and parlor adjoining. In the rear wings of this story are the dining room, recreation room (each thirty-five by forty feet), kitchen and pantry. The east and west wings contain each a group of five bed rooms with a toilet and bath room, with a ten-foot veranda extending across the front of these wings.

The second story has thirty-six bed rooms, four large linen closets, and four toilet rooms.

In the third story are eight full-sized bed rooms, two toilet rooms, and ten rooms for individual piano practice. The latter are isolated in the east and west wings in such a manner as not to interfere with study or any other work going on in the building.

The arrangement of this building is such that every bed room has two large outside windows, giving ample light and ventilation, one large wardrobe, and one alcove with book shelves. The rooms average twenty by fourteen feet or over, and accommodate two students each.

All halls are well lighted and ventilated. The toilet rooms are so grouped and arranged as to give perfect sanitation at all times, and the stairways, four in number, are at the most convenient points to feed the building equally. This building has a pleasing exterior, distinguished by its massive but well-proportioned lines, its spacious verandas, and generally home-like and inviting appearance.

HOSPITAL.

This is a one and one-half story brick building, forty-five by sixty-two feet, with a stone basement. The latter contains a kitchen, dining room, pantries, and a storage cellar with ce-

ment floors. The first story has a wide recreation and service corridor the entire length, with a fireplace and vestibule entrance; a reception room and parlor with a fireplace; an open ward for men with four beds; a men's bath and toilet room; a public toilet room; adjoining the men's bath room, the fully equipped wound-dressing and operating room; a private ward for men and one for women; also a large open ward for women and women's bath room; and a contagious ward entirely isolated from the rest of the building, with its own toilet room and fireplace. The second story contains four large finished rooms for the use of nurses and servants, or other purposes, if it is desired, plenty of closets, a linen room, and a large store room. The building is supplied with hot and cold water and electric lights, and is modern in every particular. It looks more like a home than a hospital.

PROPOSED NEW BUILDING OF THE DEPARTMENT OF EDUCATION.

The Board of Trustees of the George Peabody Fund, before the final dissolution of that corporation, made a grant of $40,000.00 to the University of Arkansas for the purpose of constructing a building for the Department of Education. Plans for this building have been accepted, and it is hoped that it will be ready for occupancy by the beginning of the college year in September, 1912. The building is to be a three-story structure, with accommodations for the teaching force of the department, cadet teachers, and the training school. Rooms for a department of Domestic Science will also be provided. The building will be a model school building, with all modern improvements in heating, lighting, ventilating, and convenience of arrangement.

GENERAL LIBRARY AND DEPARTMENTAL LIBRARIES.

The general library, occupying the second floor of the north wing of University Hall, is for the use of the whole University. All students who have matriculated may take out books, one volume at a time. A list of printed rules governing the use of the library may be had upon application to the Librarian. Officers of the University have access to the shelves, and students engaged in advanced work, upon recommendation by their instructors, may have books reserved from those parts of the col-

lection with which they are occupied. The reading room of the general library is a study hall for collegiate students only.

The leading high-class periodicals (including magazines, reviews, and various technical monthlies) are taken and bound as they accumulate. This fund of current literature is rendered useful and accessible by Poole's Index and Readers' Guide to Periodical Literature. Forty-six magazines, nine weekly, and seven daily papers are received by the general library.

The general library contains 14,165 books and 5,000 pamphlets, with a catalogue on cards, which is accessible to the public and consists of two parts, one arranged by authors, the other by title.

In addition there are departmental libraries, opened to advanced students engaged in research work, and in charge of the heads of the several departments. These special libraries contain the following number of vulumes:

Ancient Languages: U. H. 20; 300 books. PROFESSOR FUTRALL.

English and Modern Languages: U. H. 30; 975 bound books; 205 unbound books.
PROFESSORS SHANNON, MARINONI, AND LENTZ.

Mathematics and Astronomy: U. H. 34; 306 books; 45 pamphlets. PROFESSOR DROKE.

Chemistry: Chemical Laboratory; 128 books; 140 journals; 950 pamphlets. PROFESSOR CARROLL.

Biology: U. H. 32; 250 books. PROFESSOR PICKEL.

Geology and Mining: U. H. 39; 1,227 books; 1,929 pamphlets.
PROFESSOR PURDUE.

Civil Engineering: Eng. Hall; 200 books. PROFESSOR KNOCH.

Agriculture: College of Agriculture; 2,000 books; 10,000 pamphlets; 35 journals. DEAN ADAMS.

Expression: U. H. 38; 75 books. MRS. CROCKETT.

Mechanical Engineering: 200 books. PROFESSOR WILSON.

Thus the various branches of the University library contain about 20,000 books and 19,000 pamphlets.

THE LABORATORIES.

THE LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in chemistry, mineralogy, physics, botany, zoölogy, entomology, horticulture, and in civil, mechanical, electrical, chemical, and mining engineering.

CHEMICAL LABORATORIES.

The work in chemistry is carried on in the newly erected Chemistry Building. On the first floor of the building are laboratories for quantitative and qualitative analysis, organic chemistry, physical chemistry, the balance room, and a library. On the second floor is a large lecture room and a general laboratory for first year students. In the basement are store rooms and the laboratory for assaying. The various laboratories are well provided with work-tables, sinks, hoods, water, and gas. The department is provided with apparatus sufficient for the present needs.

BIOLOGICAL LABORATORY.

The biological laboratory is located on the third floor of University Hall, and has accommodation for about forty students. The laboratory is furnished with work-tables, a sink, and the necessary gas fixtures for incubators, sterilizers, etc.; also an aquarium for keeping aquatic animals and plants on hand for observation and study. The equipment in apparatus consists of Bausch and Lomb compound microscopes, dissecting microscopes, microtomes, and such other apparatus and chemicals as are needed for the practical work in biology. There is a collection of insects, and also apparatus for collecting, drying, preserving and mounting insects. The laboratory has a number of skeletons of different animals, and models and charts for teaching plant and animal anatomy.

LABORATORIES OF GEOLOGY AND MINING ENGINEERING.

The geological department is provided with aneroid barometers, compasses, hand-levels, pedometer, etc., for field work. There is also a well equipped laboratory for determinative mineralogy.

MECHANICAL ENGINEERING LABORATORY.

The laboratory contains the following machinery: One thirty-five horsepower compound automatic steam engine, one Hornsby-Akroid oil engine, one Kerr steam turbine, one side valve steam engine, one ten horsepower Weber gasoline engine, one thirty-five horsepower Westinghouse compound steam engine, one 4½x3½x4 duplex steam pump, one fifty horsepower Wheeler condenser with air, water, and circulating pumps, an Olsen oil testing machine, a viscosimeter, a flash point tester, one Pulsometer steam pump, one Westinghouse air compressor, and one 60,000 pound Rheile testing machine, for testing materials in tension and compression, such as wood, steel, and cast iron. This machine is also equipped for testing large beams of steel, concrete, or timber.

The laboratory is well provided with apparatus for experimental work, including a Mahler bomb calorimeter for testing fuels, an Orsat apparatus for flue gas analysis, a Junker calorimeter, steam calorimeters, six engine indicators, two injectors, an assortment of thermometers, pressure gauges, measuring tanks, feed water heater, water meters, scales, etc.

The steam boilers used for heating the University buildings are arranged so as to be available for experimental work, and the shop engine, a Corliss, is also used for purposes of instruction.

By special arrangement with the Fayetteville Water Company, and the City Electric Light and Power Company, the students are allowed to run tests on these plants.

Among the facilities for instruction in engineering contained in the equipment of the mechanical department in addition to that given under the heading of shops, mechanical engineering, drawing room, and mechanical laboratory, may be mentioned a Deane steam pump with air chamber, water and steam cylinders and valve chambers sectioned, so that a student may see the working parts; a Cameron steam pump with a steam cylinder sectioned, showing the valve motion; a Knowles pump in full working order; a Blake steam pump in action; sections of injectors; a model of Stevenson's link motion; and a collection of samples of manufactured articles such as steam pipe coverings, leather beltings, lubricating oils, etc.

ELECTRICAL LABORATORIES.

The dynamo laboratory affords excellent facilities for experimental work with practical machinery. It is located in the east end of the basement of the Engineering Hall.

The power is supplied by a 30-horsepower, vertical type, double cylinder gasoline engine, and a 20 K. W. induction motor. A 60-cell, 300 ampere-hour storage battery supplies current for experiments in which absolutely steady power is desired.

There are direct current dynamos and motors of the constant current and constant potential types. Single, two and three phase alternators supply current at various voltages and frequencies. There are transformers, converters, synchronous, and induction motors, with a liberal supply of measuring instruments for use with the various machines.

The senior laboratory is located on the first floor of Engineering Hall, and is supplied with direct current at 110, 220 and 500 volts. Alternate current, single phase, at 50, 110 or 220 volts and 60 cycles. Two phase, 60 cycle at 110 or 220. Three phase at 110 or 220 volts, with a frequency of 60 to 133 cycles per second. A high tension testing transformer supplies current at any voltage up to 120,000 volts for testing of insulators, while standard cells, a Kelvin balance and a potentiometer furnish means for calibrating the laboratory measuring instruments. The equipment enables students to carry on experimental work of a very wide range and to obtain proficiency in operating and testing electrical machinery.

Students are also permitted to inspect the plant of the Fayetteville Electric Light and Power Company, take measurements and make tests on it. Its primary mains supply the electrical laboratory with alternate current at 60 cycles and 2,000 volts.

The photometric laboratory, which also serves as a photographic and X-ray dark room, is supplied with a standard photometer bar, Lummer-Brodhun screen and Amylacetate standard lamp. It is connected by a cable with the switchboards in the storage battery room and in the dynamo room.

CIVIL ENGINEERING LABORATORY AND EQUIPMENT.

The instrument laboratory for this department is located on the first floor of Engineering Hall, and is provided with all the necessary instruments for work in land, railroad, and city sur-

veying and office work. The equipment of the field instruments has been selected so as to afford students the opportunity of becoming familiar with the instruments of the different manufacturers. Among the instruments there are a number of engineers' transits and Y levels, theodolites, transit and solar attachment, compasses, hand levels, standard and ordinary steel tapes, plane tables, sextant, aneroid, and mercurial barometers, etc. An equipment for practical astronomy has been added, consisting of a large altazimuth, reading to seconds by levels and micrometers; a sidereal clock with break-circuit attachment; and a chromograph reading to tenths of seconds.

The laboratory for testing materials of construction and for work in experimental hydraulics is located in the northwest corner of the basement of Engineering Hall. It is a well-lighted room having a floor space of 2,450 square feet.

The equipment for the purpose of testing the quality and strength of cements and mortars includes one 2,000-pound tension machine, one 1,000-pound automatic machine, brass molds for tension, compression, and transverse test pieces, storage tanks and apparatus for testing fineness, specific gravity and activity, and for accelerated tests.

For steel testing the laboratory contains a 4,000-pound tension machine and a 5,000-pound transverse machine for tests on bars, and a Fremont impact testing machine. Special apparatus has been provided for testing paving brick and road material, among which may be mentioned a grinding machine for preparing test specimens and machines for abrasion tests.

The equipment for experiments in hydraulics consists of a Pelton water wheel, a hydraulic engine, water meters, weirs and other apparatus.

The laboratory is also well equipped for making blue and brown prints of any size up to 36x64 inches.

AGRICULTURAL CHEMISTRY LABORATORY.

The laboratory of agricultural chemistry is located in three rooms in the old experiment station building. It is equipped with water, gas, tables, hoods, and all apparatus necessary for analytical work relative to various agricultural problems.

HORTICULTURAL LABORATORY.

For some phases of study the principal laboratory for the student of horticulture is the field and garden.

For such work as must be carried on indoors there is available for study and practice a fairly complete equipment of spraying machinery, garden tools, implements and conveniences. There are rooms equipped for practical instruction in grafting, seed sowing, seed testing, and transplanting. The greenhouse offers facilities for some phases of class work, plant study and practice. There is an equipment of microscopes and accessories for the study of diseases, the minute structure of plants, and functions. The departmental library embraces several hundred volumes and a large number of pamphlets. These are available for reference by students in horticulture, and others, under the usual regulations.

LABORATORIES OF ANIMAL PATHOLOGY AND VETERINARY SCIENCE.

These occupy three rooms in the Experiment Station Building and are equipped with all modern apparatus used in advanced work in this line, including Zeiss and Reichert microscopes, thermostats, sliding, paraffine and freezing microtomes. and a fairly complete reference library of home and foreign publications on patho-biological research.

ENTOMOLOGICAL LABORATORY.

The entomological laboratory is located on the first floor of the Agricultural Building, occupying two rooms. It is well supplied with apparatus such as microscopes, microtomes, paraffine baths, and dissecting instruments. There are collecting nets, insect cabinets, work-tables, and a very complete set of entomological publications at the disposal of the student. The collection of insects is growing rapidly and serves as a valuable aid to the student of entomology.

LABORATORY OF PLANT PATHOLOGY.

The laboratory of Plant Pathology is located in the Experiment Station Building. It is equipped with highest power microscopes and such high standard apparatus as is necessary for studying the tissues of plants, the development of diseases therein; laboratory materials and specimens for study.

SOILS LABORATORY.

The Soils Laboratory is located on the first floor of the Agricultural Building. It is equipped with apparatus for special study of soils with the view of giving the student an insight into the formation, composition, and character of soils with reference to its bearing upon soil fertility, adaptability, and all methods of soil treatment affecting the productivity and conservation of soils.

FIELD CROPS LABORATORY.

The Laboratory of Field Crops is located on the second floor of the Agricultural Building. A complete set of material is used in the study of types, strains and quality, and the scoring and judging of staple and miscellaneous crops; seed testing, the identification of seeds of grasses, clovers, noxious weeds, etc.

THE COTTON LABORATORY.

The cotton laboratory is located in the Agricultural Building. It is equipped for the most technical study of cotton and cotton fiber in addition to the more practical study. A new improved gin, the common gin, a fiber-strength testing machine, a lantern for the study of length and character of fiber, microscope, hundreds of samples of cotton representing all types and grades are available for instruction and research.

MECHANICAL HALL.

Mechanical Hall is of brick, forty feet wide and one hundred and fifty-five feet in length, with an ell thirty-five by forty feet, and contains the machine shop, wood shop, foundry, and forge shop. The shops will accommodate about seventy-five students at one time. Adjoining on the east is a boiler room fifty-three by fifty-four feet.

The work in the shops is made very practical. At present, there are under construction several gas engines, a small steam engine, boiler fronts for a 70-horsepower boiler, emery wheel stands, swing cutoff saw, and tumbling barrel for foundry. The idea in this work is to see that the student is well grounded in the principles underlying the manufacture of machinery, rather than the making of work for exhibition purposes.

The machine shop contains a Corliss engine, which runs the machinery in the whole building, a large iron planer, a shaper,

several lathes of different sizes and makes, drill press, grinding machines, milling machine, and a good supply of hand tools, benches, and materials.

The forge shop contains eight Buffalo forges with down draft, which takes the smoke away through underground pipe, thus avoiding the smoke and dirt of the ordinary blacksmith shop. It also contains a shearing and punching machine, eight anvils of different weights, and all the necessary blacksmith tools for the eight forges.

The wood shop contains one buzz planer, one large cylinder planer, circular saw, band saw, five smaller lathes, one 18-inch pattern maker's lathe, one double column shaper, and twenty-six benches, each equipped with a complete set of carpenter's tools.

The foundry contains one Colleau cupola with a capacity of one and one-half tons of iron per hour, one brass furnace of one hundred and fifty pounds capacity; Buffalo pressure blower and core oven.

The boiler room contains three seventy horsepower fire tube boilers, one water tube boiler of one hundred horsepower, and one water tube boiler of one hundred and fifty horsepower, besides feed pumps, injectors, measuring tanks, etc.

The various departments of the shop building afford facilities for giving practical instruction to seventy-five students at one time.

MECHANICAL ENGINEERING DRAWING ROOM.

The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, odontograph, slide rule, protractor, section liner, etc. A blue print room contains complete facilities for the details of the blue print process. One room is provided with photographic facilities, which will be used to prepare lantern slides and prints illustrating various branches of engineering.

PHYSICAL CULTURE ROOM.

A large room in the north wing of University Hall is set apart for the use of the department of physical culture, and has been furnished, as far as means were available, with the equipment necessary for systematic training.

THE ARMORY.

The armory is a large well-lighted room, sixty by eighty feet, occupying the entire basement of the north wing of the University Hall. It is substantially fitted up with arm racks, compartments for equipments, and other conveniences. Three adjacent rooms are assigned to the military department, and are used as band room, store room, and officers' locker room.

The equipment of the department consists of six hundred Krag-Jorgenson rifles, 18 gallery rifles, Springfield 1903, Cadet and non-commissioned officers' swords, five hundred sets of infantry equipments, national colors, signal flags, ammunition, bugles, etc., and a superior set of band instruments.

The arms and infantry equipments are furnished the University by the National Government. The other equipments have been purchased by the University, and belong to the Military Department.

THE MUSEUM.

A. H. Purdue, Curator.

The museum occupies a large portion of the fourth floor of University Hall. The material of the museum has been collected with the view of facilitating instruction in geology and biology, and also to make it of interest to the visiting public. That portion of the collection suitable for display is arranged in glass cases, while the working collection is in drawers. Sloping-top cases with drawers beneath afford space for several thousand specimens.

Relief Maps. For illustration in geology and general interest to the public, there have been placed in the museum the following relief maps: Geological relief maps of the State of Arkansas, Colorado Canyon, Central Tennessee, and the United States; a convex relief map of the United States on a section of a globe sixteen feet in diameter; a relief map of Carmel Bay, California; Ice Springs craters, Utah; Yosemite Valley; Palestine; Mount Vesuvius; the State of California; San Francisco Peninsula; and a sectional geological relief map of the Leadville region, Colorado.

The Mineral Collection. The mineral collection contains about three thousand specimens, representing the different mineral groups. Many of these specimens are displayed in cases.

The Petrographic Collection. This collection consists of a large number of specimens representing sedimentary, igneous, and metamorphic rock. Besides, there is a large collection of building and other stones from different parts of the country.

Paleontological. There is a large collection of invertebrate fossils in the museum, mainly representing the fauna of the different geological horizons in northern Arkansas.

The Major Earle Collection. Major F. R. Earle has deposited in the museum his private collection of minerals and fossils. The collection was formerly in Cane Hill College.

The Zoölogical and Botanical Collection. This collection consists of two hundred birds and mammals, representing eighty species; two hundred reptiles and amphibians, representing forty species, fifteen hundred fishes, representing three hundred and fifty species; one thousand insects and other invertebrates, representing two hundred species; several skeletons.

Donations to the museum will be gratefully acknowledged, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered and destroyed through lack of care or improper handling. The museum is now prepared to receive collections on deposit, and to preserve and to display them under the owner's name until called for.

Though the museum is most important on account of its educational value, it at the same time serves an important purpose in representing the resources of this State.

ATHLETIC FIELD.

For the accommodation of the University football and baseball teams and spectators there is an excellent athletic field with a covered grandstand and bleachers. The baseball diamond has recently been rebuilt and greatly improved, the size of the athletic field has been almost doubled, and a first-class quarter-mile running track and football field are under construction. When the improvements now under way are completed the facilities afforded for outdoor exercises will be sufficient for the accommodation of a large number of students.

ADMISSION TO THE COLLEGE

GENERAL CONDITIONS OF ADMISSION.

Candidates for admission are urged to be present on the opening day of the session. Admission at a later date is not refused, but it is attended with greater or less inconvenience.

Students on their arrival at Fayetteville should report promptly to the president. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

Applicants should present certificates of honorable discharge from the institution last attended, or furnish other testimony of good moral character.

Entrance examinations will be required of all students entering the University, except those who bring certificates from accredited preparatory schools or from reputable colleges or universities. For the time at which these examinations will be held, see page 50.

A student entering the University for the first time shall secure from the committee on accredited schools a card giving his entrance credit before any classifying officer is authorized to classify him.

ADMISSION TO THE FRESHMAN CLASS.

For unconditional admission to any Bachelor's course, or to the normal course, a student will be required to present fourteen entrance units. Among the units offered for entrance must be included all of the required units for the course which the student chooses to take. Students who desire to enter the regular courses, but are deficient in entrance requirements, may enter and be classified as conditioned students, providied their deficiencies do not exceed three units. Those offering for entrance less that eleven units must be classified as special students.

SPECIAL STUDENTS.

Persons not able to meet the regular entrance requirements may be admitted and classified "special" in the regular degree courses, provided they are twenty years of age and prepared to do satisfactory work in the subjects proposed to be taken; such

persons, though only eighteen years of age, may be admitted as special students in music, art, and short courses in engineering and agriculture.

REMOVING CONDITIONS.

Conditioned students may remove their conditions in either of two ways: (a) by private study, with or without coach, and by passing satisfactory examinations under the direction of the head of the department concerned; (b) by taking freshman courses under the direction of the classification committee and offering them in satisfaction of the deficiencies. A freshman course of three hours for a year shall count as the equivalent of one entrance unit. Courses offered to satisfy entrance requirements can not be counted as college credit.

No student can be classified in any class higher than freshman until he removes all entrance conditions.

A UNIT DEFINED.

One unit is regarded as the equivalent of a preparatory course of five periods of forty-five minutes each weekly throughout the academic year of nine months. In science courses two laboratory periods are counted as the equivalent of one recitation period. Credits of less than one unit may be granted for courses that do not run full time.

ENTRANCE SUBJECTS.

The subjects in which units may be offered for entrance are divided into two groups, as follows:

Group A.

Latin, 4 units.
Greek, 3 units.
French, 3 units.
German, 3 units.
English, 3 units.

Group B.

Agriculture, 1 unit.
Algebra, 2 units.
Plane Geometry, 1 unit.
U. S. History, ½ unit or 1 unit.
Physiology, ½ unit or 1 unit.
Botany, 1 unit.
Zoölogy, 1 unit.
Physics, 1 unit.

General History, ½ unit or 1 unit.
Greek and Roman History, 1 unit.
Modern History, 1 unit.
English History, 1 unit.
Physical Geography, ½ unit or 1 unit.
Chemistry, 1 unit.
Manual Training, 1 unit.
Mechanical Drawing, 1 unit.
Civics, ½ unit.
Padagogy, ½ unit.
Psychology, ½ unit.

Below will be found a detailed statement of the requirements for admission to the different courses:

FOR THE ARTS AND NORMAL COURSES.

Required:
English, 3 units.
Algebra, 2 units.
Plane Geometry, 1 unit.
History, 1½ units.
Elective, 3½ units.

Candidates for the B. A. degree will be required to present three additional units from Group A, at least two of which must be in one language. Normal students may make up the required number of units from A or B, or from both.

FOR THE SCIENTIFIC AND ENGINEERING COURSES.

Required:
English, 3 units.
Algebra, 2 units.
Plane Geometry, 1 unit.
U. S. History, ½ unit.
Chemistry, ½ unit.
Physics, 1 unit.

Required in addition six units selected from Group A or B, or from both.

FOR THE AGRICULTURAL COURSES.

Required:
English, 3 units.
Algebra, 2 units.
History, 1 unit.
Physics, 1 unit.
Botany or Chemistry, ½ unit.
Physiology or Physical Geography, ½ unit.

Required in addition six units selected from Groups A and B, not less than three of which must be from group B.

EXAMINATIONS IN ENTRANCE SUBJECTS.

The following statement will indicate the amount of work that should enable a student to pass entrance examinations on both required and elective subjects which may be offered in making up entrance credits, but has no reference to what work will be required if college credit is sought in these subjects.

***English.**

A—For 1912.

I. *General Reading.* From the list of books mentioned in this section the candidate must choose ten for general reading. He will be expected not to know these minutely, but to have freshly in mind their most important parts. He will, further, be required to write a paragraph or two on each of several topics drawn from them.

Group 1. (Two to be selected.)
Shakespeare's *As You Like It, Henry Fifth, Julius Caesar, The Merchant of Venice, Twelfth Night.*

Group 2. (One to be selected.)
Bacon's *Essays,* Bunyan's *Pilgrim's Progress,* Part I; Addison's *The Sir Roger de Coverley Papers,* in *The Spectator;* Franklin's *Autobiography.*

Group 3. (One to be selected.)
Chaucer's *Prologue,* Spenser's *Faerie Queen* (selections—in 1912, Book 1), Pope's *Rape of the Lock,* Goldsmith's *The Deserted Village,* Palgrave's *Golden Treasury* (first series), Book II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

Group 4. (Two to be selected.)
Goldsmith's *The Vicar of Wakefield,* Scott's *Ivanhoe,* Scott's *Quentin Durward,* Hawthorne's *The House of Seven Gables,* Thackeray's *Henry Esmond,* Mrs. Gaskill's *Cranford,* Dickens' *A Tale of Two Cities,* George Eliot's *Silas Marner,* Blackmore's *Lorna Doone.*

*SPECIAL ANNOUNCEMENT.—No candidate will be admitted to the Freshman class in English who does not present official evidence that he has *completed* the English course of an accredited school, or who does not pass a written examination based upon the requirements mentioned in detail in this catalogue. Furthermore, no candidate will be admitted to this examination who does not certify that he has read all the works prescribed for reading, and studied carefully all the works prescribed for careful study. No substitutions will be allowed.

Group 5. (Two to be selected.)
Irving's *Sketch Book*, Lamb's *Essays of Elia*, De Quincey's *The English Mail Coach* and *Joan of Arc*, Carlyle's *Heroes and Hero-Worship*, Emerson's *Essays* (selected), Ruskin's *Sesame and Lilies*.

Group 6. (Two to be selected.)
Coleridge's *Ancient Mariner*, Scott's *The Lady of the Lake*, Byron's *Mazeppa* and *The Prisoner of Chillon*, Palgrave's *Golden Treasury* (first series), Book IV, with special attention to Wordsworth, Keats, and Shelley, Macaulay's *Lays of Ancient Rome*, Poe's *Poems*, Lowell's *The Vision of Sir Launfal*, Arnold's *Sohrab and Rustum*, Longfellow's *The Courtship of Miles Standish*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur* (in 1912. *The Princess*), Browning, *Selections*.

II. *Careful Study.* A certain number of books will be prescribed for careful study. This part of the examination will be upon the subject-matter, literary form, and logical structure, and, in addition, the candidate may be required to answer questions involving the leading facts in those periods of English literary history to which the prescribed works belong. The books prescribed for this part of the examination in 1912 are:

Shakespeare's *Macbeth;* Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso* (or in 1912, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*), Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

In connection with the reading and study of the prescribed books, parallel or subsidiary reading should be encouraged, and *a considerable amount of English poetry should be committed to memory*.

Though there is no formal examination in grammar or rhetoric, the ability to write good English will be considered of the utmost importance. Serious defectiveness in point of spelling, grammar, idiom, punctuation, clear and accurate expression, or division into paragraphs, will be taken as primary evidence of the candidate's unfitness. The candidate may present, as an additional evidence of preparation, an exercise book, properly certified by his instructor, containing compositions or other written work.

B—For 1913-14-15.

The examination for these years, as for 1912, will emphasize the two main objects of preparation in English:—(1) A command of clear and correct English, spoken and written. (2) An ability to read with accuracy, intelligence, and appreciation. The only change will be in the list of books for reading and study.

1. *General Reading*—Ten units are to be selected, two from each group:

Group 1.

The Old Testament Books—*Genesis, Exodus, Joshua, Judges, Samuel, Kings, Daniel, Ruth and Esther; The Odyssey* (Books I-V, XV-XVII may be omitted); *The Iliad* (Books XI, XIII-XV, XXI, may be omitted); Virgil, *Æneid.*

For any unit of this group a unit from any other group may be substituted.

Group 2.

Shakespeare's *Merchant of Venice, Midsummer Night's Dream, As You Like It, Twelfth Night, Henry Fifth, Julius Caesar.*

Group 3.

Defoe's *Robinson Crusoe* (Part I), Goldsmith's *Vicar of Wakefield,* Scott's *Ivanhoe* or *Quentin Durward,* Hawthorne's *House of Seven Gables,* Dicken's *David Copperfield* or *Tale of Two Cities,* Thackeray's *Henry Esmond,* Mrs. Gaskill's *Cranford,* George Eliot's *Silas Marner,* Stevenson's *Treasure Island.*

Group 4.

Bunyan's *Pilgrim's Progress* (Part I), *The de Coverley Papers,* Franklin's *Autobiography* (condensed), Irving's *Sketch Book,* Macaulay's *Essays on Lord Clive and Warren Hastings,* Thackeray's *English Humorists; Selections from Lincoln,* including at least the two inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, a brief Memoir or Estimate; Parkman's *Oregon Trail,* Thoreau's *Walden,* or Huxley's *Autobiography,* and *Selections from Lay Sermons,* imcluding the Addresses on Improving Natural Knowledge, A Liberal Education, and a Piece of Chalk; Stevenson's *Inland Voyage and Travels with a Donkey.*

Group 5.

Palgrave's *Golden Treasury* (First Series) Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy*, and Goldsmith's *Deserted Village*, Coleridge's *Ancient Mariner*, and Lowell's *The Vision of Sir Launfal*, Scott's *Lady of the Lake*, Byron's *Childe Harold, Canto IV*, and *Prisoner of Chillon;* Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *Raven*, Longfellow's *Miles Standish*, and Whittier's *Snow-Bound*, Macaulay's *Lays of Ancient Rome*, and Arnold's *Sohrab and Rustum*, Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; Browning's *Cavalier Tunes, Lost Leader, How They Brought the Good News, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.*

II. *Careful Study.*

Shakespeare's *Macbeth*, Milton's *L'Allegro, Il Penseroso*, and *Comus*, Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns.*

Algebra. *Two Units.*

Through Milne's Standard Algebra, or the equivalent.

Plane Geometry. *One Unit.*

All of plane geometry will be required for admission to the Freshman class. A note-book containing the solution of at least one hundred and fifty original exercises should be submitted for examination.

United States History. *One-half Unit.*

The completion of any good high school history of the United States is sufficient.

General History. *One Unit.*

The University advises that the subject be divided into two years' work—the first year being devoted to ancient and the second year to modern history. For the present the completion of Meyer's General History or equivalent will be accepted.

Ancient History. *One Unit.*

Emphasize Greece and Rome. The completion of one of the late text-books on the subject. Five recitations a week for one year.

Modern History. *One Unit.*

The completion of one of the late high-school text-books on the period. Elective. Five recitations a week for one year.

English History. *One Unit.*

The completion of a good high school text on the subject. Five recitations a week for one year.

Latin. *Three Units.*

The minimum requirements in Latin are the reading of four books of Caesar and of four orations of Cicero, or the equivalent in other prose; a thorough knowledge of the forms and of the fundamental constructions of verb and noun; and the ability to translate into idiomatic Latin such sentences as those found in Bennett's Latin Writer. Students offering Virgil should have had four years of competent instruction in Latin, and should have read not less than six books of the Æneid. For this a credit of one additional unit will be allowed.

Greek. *Three Units.*

The requirements can be met by not less than three years of competent instruction in the preparatory school. The ground covered should be the same as that in Greek 1 and 2 (see page 91 of this catalogue), or an equivalent.

Elementary German. *Two Units.*

The examination will be suited to the proficiency of those who have had two years of German in a preparatory school, and will test (*a*) the candidate's knowledge of the rudiments of German grammar; (*b*) ability to read easy prose at sight, and (*c*) to translate simple English sentences into German. The candidate should have read two hundred pages of easy prose.

Advanced German. *One Unit.*

The examination will be suited to the proficiency of those who have had at least three years of German in a preparatory school, and will test the candidate's ability to read (*a*) modern

German prose and poetry at sight, and (*b*) to translate easy English narrative into German. The candidate should have read three hundred and seventy pages of the works of Riehl (Heyse, Freytag, Baumbach), Heine, and thirty pages of lyrics and ballads.

Elementary French. *Two Units.*

The examinations will be suited to the proficiency of those who have had two years of French in a preparatory school, and will include (*a*) the translation at sight of ordinary nineteenth century prose; (*b*) the translation from English into French of sentences to test the candidate's familiarity with elementary grammar. The candidate should have read three hundred pages of simple prose.

Advanced French. *One Unit.*

The examination will be suited to the proficiency of those who have had at least three years of French in a preparatory school, and will test the candidate's ability (*a*) to translate standard French prose and poetry at sight, and (*b*) to turn easy English prose into French. The candidate should have read six hundred pages in the works of such authors as Daudet, Loti, Sandeau, Corneille, Racine, and Moilére.

Chemistry. *One Unit.*

Remsen's Chemistry (Elementary Course), Freer's Elements of Chemistry, or Hessler & Smith's Essentials of Chemistry, or an equivalent. A laboratory note-book covering two hours of laboratory work per week for one year must be presented for examination.

Physics. *One Unit.*

Carhart and Chute's high school Physics, Hoadley's Elements of Physics, Adam's high school Physics, or an equivalent. There must be sufficient apparatus to illustrate and make clear the essential qualitative experiments in the text used. A laboratory note-book covering two hours of laboratory work per week for one year must be presented for examination.

Physiology. *One-half Unit.*

Martin's Human Body, or an equivalent.

Botany. *One Unit.*

Bergen's Elements of Botany, or an equivalent. A laboratory note-book covering two hours of laboratory work for one year must be presented for examination.

Zoölogy. *One Unit.*

Packard's Zoölogy, elementary course, and Boyer's Laboratory Guide, or an equivalent. A laboratory note-book covering two hours of laboratory work for one year must be presented for examination.

Manual Training and Mechanical Drawing. *One Unit Each.*

Credits in manual training and mechanical drawing will be accepted.

Psychology and Pedagogy. *One Unit.*

Text suggested: Dinsmore's Teaching a District School, or Kern's Among Country Schools.

Agriculture. *One Unit.*

One year's work consisting of five forty-five-minute periods weekly will receive one unit credit. A detailed statement from the former instructor of the student must be presented, giving a description of the work done. Halligan's "Fundamentals of Agriculture" and Warren's Elements of Agriculture are recommended as texts.

ORDER OF EXAMINATIONS FOR ADMISSION IN 1912.

Wednesday, September 18—9 a. m., registration of students; 1 to 3 p. m., Geometry.

Thursday, September 19—1 to 4 p. m., Algebra.

Friday, September 20—1 to 4 p. m., Latin.

Saturday, September 21—9 a. m. to 12 m., English Composition and Literature; 1 to 2:30 p. m., United States History; 2:30 to 4:00 p. m., General History.

The order of examinations in other subjects will be announced at the opening of the University.

EXAMINATIONS AT OTHER PLACES THAN FAYETTEVILLE.

Students living at a distance from the University may obtain special examinations near their homes, if applied for in due

time before the beginning of the session. The questions will be sent on application to the principal of any school, or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

ADMISSION BY CERTIFICATE.

The graduates of schools in Class A or Class B in the accredited schools list are admitted to the Freshman class in the University without examination, provided, in all cases, certificates from the principal of the school attended be presented, containing specific statements of the kind and extent of work done in the studies in which credits are desired. Blank forms for such certificates will be furnished by the University. *Diplomas of graduation will not be accepted in lieu of certificates.* Students from schools regularly accredited to other reputable colleges and universities will be admitted to the Freshman class without examination, *provided*, they present evidence that such schools are duly accredited and that they have completed the work required for admission to the Freshman class of this University in the courses which they desire to take.

A student who presents a certificate of scholarship from a high school, academy, or college not on the list of accredited schools, is required to take such examinations as may be prescribed. The result of such examinations, together with the certificates, will be passed on and proper credit allowed by the professors of the departments which such student proposes to enter.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to classes in advance of the Freshman will be required to pass satisfactory examinations in the subjects previously pursued by the class which they propose to enter. But such candidates coming from colleges or universities of good standing, may, on the presentation of the proper certificates as to the studies pursued, be admitted provisionally to such standing and upon such terms as the faculty may deem equitable in such cases. College credit for work done in high

school above the number of units required for entrance may be given to students coming from class A high schools, provided the work is of college grade.

ACCREDITED SCHOOLS SYSTEM.

A school desiring to be placed on the accredited list of the University should apply to the chairman of the accredited school committee. In response to the application, a blank form, inquiring into the course of study, teaching force and equipments of the school, will be sent to the principal. This blank should be carefully filled out, giving accurately and in detail the information called for, and returned to the accredited school committee. If the statement is satisfactory the school may be requested to submit specimen examination papers in all subjects of the two highest grades. Outline maps should accompany history papers, composition exercises should be included among all language papers, and students' note-books should accompany science papers. The high school authorities should grade these papers before sending them out. After the University has looked over them, it will probably send a representative to make a personal inspection of the school, and upon his favorable report will place the school upon the accredited list.

CLASSES OF SCHOOLS.

The accredited school list is made up of three groups of schools. Group A includes all high schools satisfactorily preparing students in a minimum of fourteen units; group B, all schools preparing students in a minimum of eleven units; and group C, all schools preparing students satisfactorily in a minimum of eight units. A unit represents approximately the amount of work done in one subject in thirty-six weeks with the equivalent of five recitations per week with a minimum period of forty minutes. When the term is less than nine months or the recitation period shorter than forty minutes, a correspondingly longer time than one year in a subject will be necessary to complete a unit. In classifying schools into groups the number of units will not be the sole consideration; on the contrary, teaching force, equipments, number of high school students, and the common school course upon which the high school is based will be taken into account. Teaching force is quite as important a

factor as number of units. In other words, the physical condition making efficient high school work possible must exist before a school is accredited. The University looks with disfavor upon schools with pretentious courses of study where the equipments and teaching force are inadequate.

In general, schools of group A should have at least three teachers devoting their entire time to high school work; schools of group B, a minimum of one and one-half teachers, and schools of group C, not less than one teacher. It will usually be found that group A is made up of schools offering a full high school course of four years, group B of schools with three years of high school work, and group C of schools with a high school course of two years. This grouping rests upon natural and fundamental conditions underlying the growth of high schools. It does not reflect upon any high school to be classed B or C. The classification rests upon the amount of work that the school is able to do well and not upon relative efficiency. Schools of group C are presumed to teach the eight or more units offered by them as well as the schools of group A teach the same subjects. What group a school falls into is determined largely by physical conditions, such as teaching force, equipments, number of pupils and financial support.

It should be remembered that graduates from schools of group C can not enter the University. Two courses are open to such of them as may want to come to the University. They can enter the third year of some neighboring high school and complete the course there, or by private study they may prepare to stand the entrance examinations on enough work to enter the Freshman class. Moreover, graduates of group B will not satisfy all entrance requirements, as the University requires fourteen units for entrance. Graduates of such schools will enter with conditions, that is, with two or three units back. A student will be allowed to make up this deficiency after entering the University. Prospective University students in high schools should take notice that the policy of the University is to discourage their coming to the University until they have graduated from the high school. The University proposes to encourage in every possible way the growth of secondary schools. The University will not receive, without examination, a student under twenty years of age from any high school within the State unless he is a graduate of said school,

except upon the recommendation of the superintendent, principal, or board of said high school.

There is a close relationship between the course of study and the teaching force. In general, a high school teacher should not meet more than six classes a day. Moreover, the high school must be based upon a common school course of at least seven grades. Schools are therefore advised not to attempt more than the teaching force will permit. Schools seeking credit for sciences should provide laboratories for experimental work and should require the pupils to prepare note-books. In the matter of science, the school should develop the work as the resources of the community will permit. Schools in group C should not attempt work in science at all; it is extremely doubtful whether schools in group B should offer any science courses. Schools in group A should build up a laboratory for one science at a time, and add courses as the teaching force and laboratory equipments will allow. It is far better to offer a thorough course in one science than to cover superficially several courses.

The University offers a wide list of electives from which a student may select in making up his entrance requirements. In offering such a list the University does not expect that many schools will attempt to offer instruction in all the subjects enumerated. The list is designed to extend liberty to the student seeking admission and to school authorities in adjusting their courses of study to local needs. Schools in preparing their courses of study are not asked to sacrifice the interests of the locality merely to prepare students for the University. The school's duty to its local constituency is paramount. The high schools that best serve their constituents are the class of schools that the University wishes to foster. Let the high schools work out courses of study best adapted to local needs and the University will adjust its work to them. The University will be glad to send a man to inspect any school desiring it. Correspondence is solicited. Address the chairman of the accredited school committee, Fayetteville, or B. W. Torreyson, Professor of Secondary Education, Little Rock.

LIST OF ACCREDITED SCHOOLS.

Class A.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Amity High School	F. W. Whinery	15½
Arkansas Cumberland College.	C. D. Crawford.	
Arkansas State Normal.	J. J. Doyne	23
Arkadelphia High School	B. F. Condray.	17
Ashdown High School.	L. E. Quinn.	16½
Atkins High School	J. P. Bingham.	15
Augusta High School.	E. W. McGough.	16
Bentonville High School.	W. D. Jeter	16
Berryville High School	W. D. Crawford	16
Blytheville High School	Edgar Williams.	14½
Booneville High School.	W. E. Darby.	24
Brinkley High School	David Bowen	15½
Carlisle High School	J. H. Horton	15½
Camden High School.	N. M. Whaley.	20
Clarendon High School.	Leo Partlow.	17
Clary Training School.	J. H. Thatch	
Conway High School.	R. H. Cannon	14
Crescent College Academy.		19
Crossett High School.	D. C. Hastings..	18
Dardanelle High School	J. F. Mitchell	15
De Queen High School	G. A. Sullards	16½
Dermott High Schooll.	U. C. Barnett	14
El Dorado High School.	T. W. Abbott	19½
England High School	W. E. Laseter	14½
Eureka Springs High School	C. S. Barnett.	16½
Fayetteville High School	F. S. Root	18
Fordyce High School.	C. E. Condray	20½
Fort Smith High School	J. W. Kuykendall.	28
Guthrie (Okla.) High School	W. S. Calvert	
Green Forest High School	H. P. Burney	14½
Hamburg High School	F. W. Whitesides	18
Harrison High School	C. L. Moore	15
Helena High School.	S. H. Spragins.	20½
Hope High School	M. A. Matlock	21
Hot Springs High School	F. W. Miller	24
Jonesboro High School	D. T. Rogers.	18½
Junction City High School.	F. O. Horton.	16½

Class A.—Continued.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Little Rock College		22½
Little Rock High School.	R. C. Hall	29
Lonoke High School	O. E. Williams	17½
Magnolia High School.	J. P. Womack	18½
McAlester (Okla.) High School.	B. H. Locke.	
Mena High School.	W. T. Adams	14
Monticello High School	J. W. Campbell.	14
Mountain Home Academy.	R. E. Crump.	18
Nashville High School.	R. H. Kolb	15
Paragould High School	H. R. Partlow.	24½
Paris (Texas) High School	J. P. Downer.	
Pine Bluff High School	Junius Jordan	25
Portland High School	J. R. Anders	
Prescott High School.	A. R. Stivers	16
Rogers High School.	A. B. Mayberry	20½
Rogers Academy		
Russellville High School	W. A. Crawford	20
Siloam Springs High School.	J. B. Bunn.	18
Springdale High School.	W. H. Banta	19½
Stamps High School	A. H. Abbott.	15½
Stuttgart High School.	J. J. Rossman	16½
Stuttgart Training School	C. Orear.	
Texarkana High School	G. W. Reid	21½
Tulsa (Okla.) High School	J. J. Masters.	
Van Buren High School	Miss Sue Burney	
Warren High School	J. A. Presson.	20
Warren Training School	D. L. Paisley.	17
Washington High School	L. P. Atkins	14½
Western Military Academy	A. M. Jackson.	

Class B.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED
Agricultural High School, Magnolia.		11
Bellefonte High School		
Benton High School	S. E. L. Brown	12
Cabot High School	A. L. H. Miller.	11
Cale High School		12½
Charleston High School	A. Starbuck.	13½

Class B.—Continued.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Choctaw High School	W. E. Halbrook	13½
Clarksville High School	W. S. Williams	13
Clinton High School	M. P. Hatchett.	12
Corning High School.	W. L. Skaggs.	
Foreman High School	J. F. Simmons.	11
Forrest City High School	S. R. Steele	13
Gentry High School.	G. M. Woods	
Gravette High School	Mrs. W. A. Hunt	
Havana High School	M. Sullivant	13½
Hazen High School	E. A. Funk	12½
Heber High School	J. G. Spiker.	11
Hesperian High School, Lockesburg		12½
Marianna High School	J. H. Andrews.	12½
Malvern High School	R. P. Bowen	13
Morrilton High School	W. J. Peterson	11½
Okolona High School.	D. P. Holmes	13½
Piggott High School	M. T. Pope	13
Pocahontas	W. F. Spikes	11½
Prairie Grove High School	J. C. Hennon.	12½
Searcy High School	W. F. Wilson.	13½
Sulphur High School		11
Stephens High School	T. W. Abbott	11
Tuckerman High School.	E. R. Williamson	11
Trenton High School.	W. W. McClure	11
Waldron High School	C. Henderson	13
Wynne High School.	H. A. Woodward	13
Yellville High School.	O. J. Carson	12½

Class C.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
Alma High School	H. W. Shaffer	8
Argenta High School.	D. L. Paisley.	
Batesville High School	Sydney Pickens.	
Beebe High School.	O. T. Richardson	8
Belleville High School.	O. B. Adams	8
Begelow High School.	R. W. Brock	8½
Cotter High School	J. H. Baker	
Des Arc High School.	U. C. Gregg.	

Class C.—Continued.

NAME OF SCHOOL.	PRINCIPAL.	UNITS OFFERED.
DeVall's Bluff High School	B. O. H. Womble	8½
DeWitt High School	W. A. Fish.	9½
Evening Shade High School.	J. C. Ashley.	
Greenwood High School	J. R. Grant	9
Gurdon High School	A. J. Reagan.	
Harrisburg High School	W. V. McVey	10
Hartford High School	W. S. Morgan.	10
Huntington High School.	H. O. Alcorn	8
Jacksonville High School	R. D. Highfill	10½
Jasper High School	W B Clark	9
Lake Village High School.	F. L. McChesney.	8
Lewisville High School	J. F. Bright.	
London High School	J. R. Tillman.	8
Luxora High School.	B. B. Owen	8
Marshall High School	L. F. Bacon.	9
Magazine Academy.		10
Marvell High School.	L. P. Anderson	10½
Montrose High School.	W. P. Maury.	8
Newport High School	Ernest McKenzie	10
Osceola High School	H. W. Roberts.	
Ouachita-Maynard Academy.		8
Ozark High School.	A D. Carden.	
Paris High School.	J. R. Williams.	8½
Plumerville High School	M. L. Milner.	
Quitman High School	T. M. Norwood.	
Rector High School.	W. E. Simpson	
Rison High School.	C. H. Payne.	8
Walnut Ridge High School.	B. A. Spradlin.	10½
West Fork High School.	W. F. Buck	8
Wilmar High School	T. E. Joyce	

THE AGRICULTURAL SCHOOLS.

First District.....Jonesboro
Second District.....Russellville
Third District.....Magnolia
Fourth District.....Monticello

Credit will be allowed, for entrance to the College of Agriculture, for work done in these schools.

MISCELLANEOUS INFORMATION

SELECTION OF COURSES OF STUDY.

Students are allowed all reasonable freedom in choosing their courses of study. But they are required to pursue their studies in the order prescribed, and, when candidates for a degree, to complete, as a condition of graduation, all the subjects in the course leading to such degree. Changes in the course of study selected are discouraged, but for sufficient reasons are allowed if made within three weeks after admission; subsequently no such change can be made during the session except by the express permission of the faculty.

NUMBER OF RECITATIONS.

All students are required to take not less than twelve nor more than eighteen recitations or their equivalent per week, exclusive of military science and tactics. A student in the Arts or Normal courses who fails in any course, or who makes a grade not higher than F in a majority of his courses, shall not be permitted to carry more than sixteen hours in the succeeding term or year. It is assumed that each hour of recitation involves approximately two hours of preparation, and each two hours of laboratory one hour of preparation on the part of the average student. Therefore, in general, two hours of laboratory work are counted as the equivalent of one hour of recitation; but in cases where laboratory work done under the supervision of an instructor does not require outside preparation, three hours shall be the equivalent of the unit of credit.

CLASSIFICATION OF STUDENTS.

The satisfactory completion of the work of a class as attested by daily recitations and examinations is the condition of enrollment in a higher class. Some margin, however, is allowed for making up studies in arrears. But more than seven hours per week required for such studies or more than seven hours per week omitted from the studies of a given class prevent enrollment therein.

CONDITIONS FOR GRADUATION.

All students applying for graduation shall, at the beginning of the year in which they expect to graduate, notify the committee on accredited schools of their candidacy; and it shall be the duty of this committee, within one month after the beginning of the session, to ascertain whether such students have fulfilled all entrance requirements to the courses in which they expect to graduate, and in case they find any who have not fulfilled the requirements, to notify them of that fact.

MID-YEAR AND FINAL EXAMINATIONS.

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations, of the monthly tests, and of the examinations, and are divided into five groups, as follows: Excellent (E); Good (G); Fair (F); Conditioned (C); Poor (P). A grade not lower than F is required for a "pass," which is the equivalent of about 75 per cent. A student who receives a grade of C may remove his condition by doing satisfactory work in the same course during the succeeding term. At the end of each term a report is made to the parent or guardian of each student, showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed by the professor in charge of the department to which the study belongs not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take up with the next class.

3. If a student has proved competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

4. Students who at the end of any term have not passed on as much as seven hours' work, are, in the absence of extenuating circumstances, dropped from the rolls of the University. For the enforcement of this rule the Committee on Doubtful Cases is responsible.

EXEMPTION FROM EXAMINATION.

Any student whose daily standing in a particular course is not less than E and who shall have received a grade of not

less than E on at least three monthly tests, shall be excused from examination in that course. No others shall be excused for any reason.

MONTHLY TESTS.

It is the duty of the heads of departments to require monthly tests in all classes where a majority of the students are Freshmen or Sophomores. It is also their duty to have each student whom these tests show to be delinquent interviewed with respect to his work, and to report the name of such student to the Committee on Doubtful Cases.

APPOINTMENT OF BENEFICIARIES.

Beneficiary appointments entitle the holders to free tuition. Such an appointment may be obtained from the county judge of the county in which the student resides, or from the president on arrival at the University. The total number of beneficiaries allowed to the state is one thousand.

EXPENSES.

It is the object of the University to give the best possible education at the lowest possible cost. Tuition is free to all students. A matriculation fee of twelve dollars is charged all candidates for admission. The following estimates are based upon the actual expenses of students during recent sessions:

Clothes, including uniform..	$ 20 00	$ 40 00	$ 65 00
Board, laundry, etc.....	135 00	180 00	225 00
Books, instruments, etc....	10 00	15 00	20 00
Incidentals	15 00	30 00	35 00
Matriculation fee	12 00	12 00	12 00
	$192 00	$277 00	$357 00

Each student occupying a room in one of the dormitories is charged a fee of five dollars per term. To have a room reserved, this fee must be paid not later than September 1.

A laboratory fee of five dollars is charged each student who has work in any of the departments of science.

Fees are payable in advance. Board bills in the dormitories are payable monthly in advance. A diploma fee of five dollars is charged all graduates. All dues are to be paid or satisfactorily adjusted before diplomas are conferred.

STUDENT LABOR.

A large part of the student body work during vacant hours to meet part of their expenses.

Considerable manual and clerical labor is necessary to carry on the various departments of the University, and students who desire to work are employed when practicable. The requests for work always exceed the amount of money available, and the University makes no promises to furnish employment for wages to all who apply.

BOARD FOR YOUNG MEN.

A fee of five dollars per term is charged each occupant of a room in the University dormitories. Students leaving the University frequently sell their furniture at a small reduction. If there are not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the faculty whenever it is deemed necessary.

Students boarding elsewhere are under the supervision of the president of the University, and are allowed to board only at places approved by him. No student is allowed to change his boarding place without the consent of the president.

BOARD FOR YOUNG WOMEN.

Young women, who, for any reason are unable to room and board at the dormitory, may secure rooms in private families in the town. A list of approved boarding houses has been arranged by the dean of women, Miss Mary A. Davis, Ella Carnall Hall, and all young women desiring board in town should consult her before securing homes. All young women in the University are under the general supervision of the dean of women and are subject to the following regulations:

1. Young ladies and young gentlemen are not allowed to board at the same place.

NOTE—The reception committee of the Y. M. C. A. will endeavor to meet all trains and assist the incoming students in finding eligible boarding places.

2. Young ladies are not allowed to change their boarding places without permission from the dean of women.

3. Callers may be entertained only on Friday and Saturday evenings and also on Sunday evening when a young man desires to accompany a young lady to church.

4. Callers are expected to leave at 10 o'clock p. m.

5. Young ladies may go out only on Friday and Saturday evenings. This regulation may be suspended for lectures and other high class entertainments.

STUDENT ENTERTAINMENTS.

Students are not allowed to give entertainments of a social nature except on Friday and Saturday evenings. All such entertainments must close not later than 11 p. m.

ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son or daughter at any time, without reason assigned, is recognized, but without such withdrawals the student can not be relieved of the obligation to attend the University duties. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the president permits them, in cases where propriety or urgent necessity seem to make them unavoidable, it is held to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the president, stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian to his withdrawal from the University.

SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the general assembly of the State of Arkansas, it is unlawful for any person to sell or give away any vinous or ardent spirits within five miles of the University of Arkansas.

PUBLIC APPEARANCE.

Public appearance consists in representing the University in dramatic or musical exercises, in intercollegiate debates, in oratorical or athletic contests, in positions of responsibility in student enterprises of a public nature, as delegates from student organizations, or at commencement or other important occasions.

1. Only a regularly matriculated student carrying not fewer than twelve hours is eligible for public appearance.

2. No student is eligible for public appearance who is found to be delinquent in his studies.

3. No person is admitted to any intercollegiate athletic contest who receives any gift, remuneration or pay for his services on the college team.

4. Each candidate for public appearance is required to subscribe to and file with the chairman of the conmittee on public appearance in advance a written statement that he is eligible under the letter and spirit of these rules.

5. All officers elected by student organizations to represent the University in a public capacity are subject to the approval of the Committee on Public Appearance.

6. The right to wear the "Varsity A" is subject to the approval of the Committee on Public Appearance.

7. No person having represented the University in any form of public appearance during any year and having been in attendance less than one college half year is eligible for public appearance thereafter until he has been in attendance six consecutive calendar months.

SECRET SOCIETIES.

The following rules for the regulation of secret societies have been adopted by the faculty:

1. No student shall be initiated in any secret student organization, whether it be a Greek letter fraternity, sorority, or other secret society, until he shall have been officially informed by the recorder of grades that he has completed all the work preparatory to admissiom into the Freshman class of the University and has completed the equivalent of not less than fifteen hours of collegiate work for one term; and, provided, that students who

are taking special courses, short courses, or who may be candidates for the L. I. certificate may be initiated if they are entitled to entrance and collegiate credits equal to the above requirements.

2. Any Greek letter fraternity or other secret organization that shall pledge for membership or initiate any student until he has complied with the aforesaid conditions shall thereby forfeit its right to exist and shall no longer exist in the University of Arkansas.

3. If any fraternity shall permit its members to drink wine, whiskey, beer, or other intoxicants, in its chapter house or meeting place, or allow such liquors to be kept or stored there, or shall permit any gambling or other violation of law therein, or shall keep a disorderly house or place, such fraternity shall be cited for trial before the faculty, and upon proof being adduced establishing any of the above-mentioned offenses, such fraternity shall not be allowed to exist longer under its own name or under any other form or name in the University of Arkansas.

UNIVERSITY ORGANIZATIONS

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

B. W. DICKSON, General Secretary.

The Young Men's Christian Association stands for the development of the man, physically, mentally, and spiritually. Its object is to lead men to become disciples of Jesus Christ, to lead them to join the Church, to promote growth in Christian faith and character, and to enlist them in Christian service.

Its mission is to befriend and help those who need friends and help; to apply to college life the principles taught by Jesus Christ; to stimulate men to develop a well, proportioned, all-round manhood; to train men for aggressive religious work; to bring to bear upon the University life a vigorous and healthful influence—in short to prepare an army of men to go out from the institution to become religious leaders, as well as business, social, and intellectual leaders.

The Association has for its special work the carrying on of Bible study and Mission study in voluntary group classes under the direction of competent leaders.

Religious meetings are held each Sunday afternoon in the Association Hall at 2:30 o'clock, when lectures and addresses are given on various religious and Biblical topics. Prayer meetings are held each Wednesday evening at 6:30 o'clock. Special evangelistic meetings are held once a year. Personal work is also encouraged among the Christian men.

The Student Volunteer Band for Foreign Missions strives to increase the interest in Foreign Missions and to secure recruits for the work on the Foreign field.

Any student or professor who is a member of an evangelical church and approves of the objects of the Association may become an active member. Any man, either student or member of the faculty may become an associate member.

A bureau of information is conducted for the benefit of all the students who need assistance. Students are assisted in securing boarding places at the beginning of the year.

Receptions are held at intervals during the year for all the students.

The General Secretary and the other officers of the Association will be glad to assist every student in any possible way.

The management of the University is in hearty sympathy with the organization and does all in its power to aid in the work.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The Young Women's Christian Association, founded September 20, 1904, is composed of young women seeking to develop their Christian character, and to win others to Christ. Prayer meetings are held Friday evenings, and the regular religious services Wednesday afternoon. During the past year the membership of the Association has been about one hundred and twenty, with nearly one hundred enrolled in Bible study and sixty-five in mission study. The Association gives several entertainments during the year, endeavoring through these to arouse a spirit of friendship among all the young women. The members of the Association will gladly assist in any way young women just entering the University.

LITERARY SOCIETIES.

There are six literary societies: The Mathetian, founded in 1873; the Garland, founded in 1886; the Periclean, founded in 1901; the Sapphic, founded in 1906; the Lee, founded in 1906; the Demosthenean, founded in 1907. The Mathetian Society is composed of students of both sexes; the Garland, Periclean, Lee, and Demosthenean societies, of male students; the Sapphic, of female students. The weekly meetings of the six societies afford excellent opportunities for improvement in composition, declamation, debate, etc.

ELECTRICAL ENGINEERING SOCIETY.

The University of Arkansas Branch of the "American Institute of Electrical Engineers," which was established at the University in 1904, holds regular meetings on the first and third Tuesdays of each month.

Original papers are read, and advance copies of papers to be presented at the Institute meetings in New York are read and discussed. All students interested in electrical science are eligible to membership.

MECHANICAL ENGINEERING SOCIETY.

The University of Arkansas Student Section of the American Society of Mechanical Engineers was organized in 1909, and holds

regular meetings on the second and fourth Mondays of each month. Original papers by the members of the Society, by members of the University Faculty, and selections from the Society Transactions are read and discussed. The late discoveries in the research world are commented upon. At least one engineer of note will lecture before the Society during each scholastic year.

Any student pursuing an engineering course is eligible to membership.

THE AGRICULTURAL SOCIETY.

Meetings are held weekly for discussion and debate upon practical and technical subjects in agriculture and current topics of public interest.

CERCLE FRANCAIS.

The Cercle Francais was founded by Professor Antonio Marinoni in 1905. Its object is to encourage the use of spoken French and to promote the study of French life and literature. Meetings are held fortnightly in private houses.

STUDENT PUBLICATIONS.

There are two publications issued by the student body: *The University Weekly*, devoted to current events in all departments of the University; and the *Cardinal*, which is published annually, and gives a history of the college year. The *Weekly* is edited by a board selected from the entire student body; the *Cardinal* is published by the members of the Junior class.

GLEE CLUB.

The University of Arkansas Glee Club is a student musical organization, membership in which is open to men students and is determined by competition.

The club gives its annual concert at some time during the second term and also gives concerts at different places in the state.

PRIZES

THE WILLIAM JENNINGS BRYAN PRIZE.

A prize fund of $250 has been bestowed upon the University through the liberality of Hon. W. J. Bryan, of Nebraska, and a prize named in his honor and consisting of the annual income of this fund will be offered each year, provided that productions worthy of its bestowal are presented.

The prize will be awarded for the best essay on some topic relating to the problems of government, and the subjects for competition will be selected in the alternate years by the department of economics and sociology, and the department of history. The contest will be open to students who have junior or senior standing, more than half of whose work has been of the Grade G, and to special students in the collegiate department who have thirty-two hours' credit of a similar grade.

The subject for the year 1912-13 will be announced in September, 1912. Further details of the plans of competition may be obtained from the professor of economics and sociology. The competitive essay must be submitted by the first of May, 1913.

THE JOHNSON PRIZE.

Professor W. S. Johnson offers a valuable loving cup to be competed for in an oratorical contest open to the members of the literary societies.

BROUGH DEBATING MEDAL.

Professor Charles Hillman Brough, of the department of economics and sociology, offers a medal of the value of $20, or $20 in money, as a prize for excellence in debate, to be contested for by two representatives from each of the literary societies of the University. Two debates are held during the session; one a formal, in which the speeches are prepared, and valued at sixty per cent; the other, an informal, in which the speeches are impromptu, and valued at forty per cent. These debates are designed to train students of the University in the art of forensic speaking, and to promote a friendly rivalry among the literary societies.

THE WINGO MEDAL.

Hon. Otis T. Wingo, of De Queen, Arkansas, a former member of the State Senate, offers a medal of the value of ten dollars for the best declamation. All male students are eligible to compete for this medal.

THE TILLMAN MEDAL.

President John N. Tillman offers a gold medal for the best essay by any member of the Sapphic Society.

THE A. B. BANKS INSURANCE PRIZE.

Mr. A. B. Banks, President of the A. B. Banks Insurance Company, of Fordyce, Arkansas, offers a prize of $50 to any student of the University of Arkansas, taking economics, writing the best essay on some fire insurance topic, selected by the economic staff of the University. By special arrangement with Mr. Banks, this prize is divided between the writers of the first, second, and third best essays, in the ratio of $25, $15, and $10, respectively.

CHAPEL EXERCISES

Religious exercises, conducted by Mr. B. W. Dickson, General Secretary of the Y. M. C. A., or by an invited clergyman, are held in the University Chapel on Monday and Friday mornings at twenty minutes past eight.

CHURCHES

The churches of Fayetteville cordially welcome the students to their Sunday Schools and various meetings of prayer and religious instruction. Many students are actively engaged in the work of the different church societies and guilds.

The pastors of the city are actively interested in the spiritual welfare of the students. There follows a list of the local churches and pastors, with the addresses of the latter:

Baptist—Rev. M. L. Sheppard, E. Spring St.

Christian—(First)—Rev. W. T. Hilton, 409 E. LaFayette Ave.

Christian (Second)—Rev. John Hinds, Hill St.

Central Presbyterian—Rev. M. L. Gillespie, 308 W. Charles St.

Methodist Episcopal—Rev. J. F. Ross, cor. W. Rock and School Sts.

Methodist Episcopal, South—Rev. M. N. Waldrip, 309 Highland Ave.

Methodist Protestant—Rev. J. H. Kilgore, Leverett St.

First Presbyterian—Rev. R. B. Willis, Washington Ave.

Protestant Episcopal—Rev. A. W. Saphore.

Roman Catholic—Father Peter Bandini.

DEGREES

The following degrees are conferred by the University:
For undergraduate work:

Bachelor of Arts (B. A.).
Bachelor of Civil Engineering (B. C. E.).
Bachelor of Electrical Engineering (B. E. E.).
Bachelor of Mechanical Engineering (B. M. E.).
Bachelor of Mining Engineering (B. Mi. E.).
Bachelor of Chemical Engineering (B. Ch. E.).
Bachelor of Science in Chemistry (B. S. C.).
Bachelor of Science in Physics (B. S. Phys.).
Bachelor of Science in Agriculture (B. S. A.).

For graduate work:

Master of Arts (M. A.).
Master of Science (M. S.).
Civil Engineer (C. E.).
Electrical Engineer (E. E.).
Chemical Engineer (Ch. E.).
Mechanical Engineer (M. E.).

All the courses leading to the different bachelor's degrees are based on four years of collegiate work. The B. A. course is designed to give the student liberal culture; while the engineering and scientific courses are technical. The B. A. course is almost entirely elective, certain safeguards and restrictions being thrown around the student's choice of electives; the technical courses necessarily consist principally of prescribed work.

For the announcements of the several collegiate departments see p. 90 *et seq.*; College of Agriculture, p. 138 *et seq.*

COURSES OF STUDY FOR THE COLLEGIATE DEGREES

B. A. COURSE.

FRESHMAN	Periods	SOPHOMORE	Periods
English	3	English	3
A Foreign Language	3 or 4	The Foreign Language Pursued in Freshman Year	3
From Group II	3 or 4	From Group II	3
From Group III	3	From Group III	3
Elective	2, 3, or 4	Elective	4
Total	16	Total	16

JUNIOR	Periods	SENIOR	Periods
Elective	16	Elective	16

NOTE.—A period means one recitation per week throughout a college year, or the equivalent in laboratory work. (See page 59.)

Conditions.

1. Sixty-four periods are required for graduation.

2. Not more than eighteen periods may be taken in any subject, and not more than thirty-six periods in any group.

3. At any time after the student's Freshman year, and not later than the beginning of his Junior year, he shall choose a major subject. After the student has selected his major subject, the professor in charge of that subject shall have control of nine hours' work in each of the succeeding years of the student's course.

4. The classification of all liberal arts students shall be subject to the approval of the classification committee; provided that the major professor, in addition to the number of hours he controls, shall sit as a member of the committee in determining the remainder of his major students' work.

5. Candidates for the B. A. degree shall choose their major subject from groups I, II, or III, and shall offer not fewer than nine periods for each of these groups. Not more than nine periods

may be offered from group IV. In the foreign language pursued in the Freshman year the equivalent of two years' work must be offered for admission.

6. In addition to the requirements above mentioned, military science and tactics will be required of male students, or, whenever they are excused, one period per year in other work. One period per year in music, art, elocution, physical culture, or other work, will be required of female students.

Groups.

I. Greek, Latin, English, German, French, Spanish, Italian.

II. Mathematics, Astronomy, Chemistry, Physics, Geology, Biology.

III. History, Philosophy, Political Science, Economics, Sociology, Pedagogy.

IV. Mechanical, Civil, Electrical, Chemical, and Mining Engineering, Agronomy, Plant Pathology, Entomology, Agricultural Chemistry, Animal Husbandry, Veterinary Science, Dairying, and Horticulture.

LIST OF COURSES OPEN TO FRESHMEN.

The following courses are open to Freshmen students in the Bachelor of Arts course: Biology 1, Chemistry 1 and 1b, English 1, French 1, Geology 1, German 1 Greek 1, History 2, Italian 1, Latin A and 1a, Mathematics 1a, Pedagogy 1, Physics 1, Spanish 1, and elementary courses in Agriculture.

Advanced courses in these subjects may be taken by those Freshmen whose preparatory work has fitted them to pursue such courses.

Mathematics 1a or 1c is required of all men students in the Freshman Class. Econnomics 1 is, as a rule, not open to Freshmen. Mature students, however, who rank as Freshmen may be permitted to elect Economics 1.

COURSE IN CIVIL ENGINEERING FOR THE DEGREE OF B. C. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1*c*, Algebra, first term	3	C. E. 2 and 3, Surveying	3
Solid Geometry, second term	3	Mathematics 4*a*, Analytic Geometry and Algebra	3
Mathematics 2*c*, Plane Trigonometry, first term	3	Mathematics 4*b*, Differential and Integral Calculus	2
Analytic Geometry, second term	3	English 2, French 1, German 1, or Spanish 1	3
General Chemistry	3	Physics 1	3
C. E. 8, Lettering	2	C. E. 1, Descriptive Geometry, first term	2
C. E. 1*a*, Drawing	2	C. E. 4, Highway Construction, second term	1
English 1	3	C. E. 4*a*, Architectural Drawing, second term	1

JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
C. E. 5, Railroad Engineering	2	C. E. 15*a*, Reinforced Concrete, first term	2
C. E. 6, Field Practice	2	C. E. 15, Field Practice, second term	2
C. E. 8a, Technical Drawing	2	C. E. 14, Engineering Laboratory, first term	2
M. E. 9, Hydraulics, second term	2	C. E. 11, Sanitary Engineering, first term	2
C. E. 10a, Structural Mechanics	5	C. E. 12, Technical Drawing	2
or M. E. 4, Mechanics	4	C. E. 13, Waterworks Construction, second term	3
or Math. 6b, Algebra and Calculus	2	C. E. 9, Masonry Construction, first term	2
*Elective	3 or 2	C. E. 10, Roofs and Bridges	4 & 3
		Geology 5, Blowpipe Analysis, second term	2
		*Elective	3
		Thesis	.....

*Electives can be taken only on the approval of the professor of Civil Engineering.

COURSES IN ELECTRICAL ENGINEERING FOR THE DEGREE OF B. E. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1*c*, Algebra, first term; Solid Geometry, second term	3	Mathematics 4*a*, Analytic Geometry, first term; Algebra, second term	3
Mathematics 2*c*, Plane Trigonometry, first term; Analytic Geometry, second term	3	Mathematics 4*b*, Calculus	2
English 1, English Composition	3	Chemistry 1, General Chemistry	3
Physics 1, General Physics	3	Physics 2, Advanced General Physics	3
E. E. 2, Drawing	2	Physics 2*a*, Laboratory Work	2
M. E. 1*d*, *b*, Shop Work	1½	M. E. 1*c*, *e*, Shop Work	1½
		E. E. 2*a*, Drawing	2

JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Mathematics 6*b*, Calculus first term	2	E. E. 8, Alternate Current Theory, and E. E. 9, Polyphase Electric Currents	3
English 1*a*, or German 1, or French 1, or Spanish 1	3	E. E. 6, Electrical Laboratory	2
E. E. 7, Dynamo, Electric Machinery	3	E. E. 4, Technical Drawing	2
E. E. 3, Technical Drawing	2	E. E. 11, Telephony and Telegraphy	2
M. E. 4*b*, Mechanics or Physics 4	4	M. E. 5*b*, Steam Machinery, first term	3
E. E. 5, Electrical Laboratory	2	M. E. 6, Mechanical Laboratory, first term, and E. E. 10, Electric Railways, second term	2
		Elective	
		Thesis	2

COURSE IN MECHANICAL ENGINEERING FOR THE DEGREE OF B. M. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1*c*, Algebra, first term; Geometry, second term	3	Mathematics 4*a*, Algebra	
Mathematics 2*c*, Trigonometry, first term; Analytic Geometry, second term	3	Analytic Geometry	3
English 1, English Composition	3	Mathematics 4*b*, Calculus	2
Physics 1	3	Chemistry 1m	3
M. E. 2*a*, Mechanical Drawing	2	C. E. 1, first term	1
M. E. 1*b*, d. Shop Work	2	C. E. 17, second term	1
		M. E. 3, Machine Design	3
		M. E. 1*c*, e. Shop Work	2

JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Methematics 6*b*, Calculus 1st term	1	M. E. 7, Machine Design	4
M. E. 2*b*, Mechanical, Drawing, first term, M. E. 3*b*, Machine Design, second term	2	M. E. 8, Mechanical Laboratory	2
M. E. 4, Theoretical Mechanics, first term; Mechanics of Materials, second term	4	M. E. 9*b*, Hydraulic Machinery, two hours per week, first term	1
M. E. 5*b*, Steam Engines and Boilers, first term; M. E. 5*c*, Gas Engines, and Producers, second term	3	E. E. 5, Electrical Laboratory	2
M. E. 6*b*, Mechanical Laboratory	2	E. E. 7, Electrical Machinery	3
M. E. 9*a*, Hydraulics, two hours per week, second term	1	Elective	4
M. E. 1**f**, Advanced Shop Work	2	Thesis	
Elective, second term	1		

All elective courses are subject to the approval of the Professor of Mechaniel Engineering.

A description of the courses offered in the department of Mechanical Engineering, will be found on page 130 *et seq.*

COURSE IN MINING ENGINEERING FOR THE DEGREE OF B. Mi. E.

FRESHMAN YEAR	Hrs. per week
Chemistry 1 and 5, General Inorganic Chemistry and Qualitative Analysis	3
*C. E. 1*a*, Special Drawing	2
English 1, English Composition	3
Mathematics 1*b* and 2*a*, Algebra and Solid Geometry, Trigonometry and Analytic Geometry	6
Physics 1, General Physics	3

SOPHOMORE YEAR	Hrs. per week
Chemistry 2 and 5, Advanced Inorganic Chemistry and Qualitative Analysis	4
C. E. 1, Descriptive Geometry, two hours, first term	1
Geology 2, General Geology	3
Geology 5, Crystallography, Mineralogy, and Blowpipe Analysis	3
Mathematics 4*a* and 4*b*, Analytical Geometry, Trigonometry and Calculus	5
Mining 1, Elementary Mining, two hours, second term	1

JUNIOR YEAR	Hrs. per week
Chemistry 6, Quantitative Analysis, three hours, first term	1½
C. E. 2 and 3, Surveying	3
E. E. 12, Direct Current Machinery, three hours, first term, and Geology 3; Field Work, three hours, second term	3
M. E. 4, Mechanics	4
M. E. 9, Hydraulics, two hours, second term	1
‡Geology 8, Rocks and Metamorphism, two hours, second term	
Mining 2, Details of Mining	2
†Elective	2

SENIOR YEAR	Hrs. per week
Chemistry 7, Quantitative Analysis	1
E. E. 5, Electrical Laboratory, two hours, first term	1
M. E. 5, Steam Engines, three hours, first term, and Geology 7; Economic Geology, three hours, second term	3
‡Geology 9, Descriptive Mineralogy, one hour, first term, and Metallurgy 2; Assaying, three hours, second term	2
Metallurgy 1, General Metallurgy	3
Mining 3, Advanced Mining	3
Mining 4, Engineering Problems of Mining	3
‡Mining 8, Ore Dressing	2

*C. E. indicates Civil Engineering; E. E. Electrical Engineering, and M. E. Mechanical Engineering. The figures after the names are the numbers of the courses as given in the catalogue.

†Electives can be taken only on the approval of the Department of Geology and Mining.

‡Additional work in mechanical and electrical engineering may be substituted for Geology 8 and 9, Metallurgy 2 and Mining 8, by persons desiring to specialize in coal mining.

COURSE IN CHEMICAL ENGINEERING LEADING TO THE DEGREE OF B. CH. E.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1*c*	4	Mathematics 4*a* and 4*b*	5
Mathematics 2*c*	2	Chemistry 2 and 2*a*	3–4
Chemistry 1 and		Chemistry 5 and 6	3
Chemistry 5, (second term)	3½	Physics 1 and 1*a*	3½
M. E. 1*b*, 1*c*, 1*d*	3	M. E. 1*e*	1
M. E. 2	2	German 1	3
English 1	3		

JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Chemistry 4 and 4*a*	4	Chemistry 8	3
Chemistry 7	3	Chemistry 11	1½
M. E. 3	3	Chemistry 13	1½
M. E. 4*a* and 4*b*	4	M. E. 6*a* and 6*b*	2
M. E. 5*b* and 5*c*	3	E. E. 7	3
English 1*a* or		C. E. 14, first term	1
French 1	3	Economics 9, one term	1½
		Thesis	
		Journal Meeting (Chemistry 18)	
		French 1 or English 1*a*	3

N. B.—Certain substitutions may be permitted at the discretion of the classification committee.

COURSE IN CHEMISTRY FOR THE DEGREE OF B. S. IN CHEMISTRY.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
Mathematics 1*a* or Mathematics 1*c* and 2*c*	4–6	Chemistry 2	3–4
Physics 1 and 1*a*	3½	Chemistry 6	3-5
Chemistry 1 and Chemistry 5, second term	3½	French 1	3
English 1	3	Drawing 1*a*	2
German 1	3	And from 6 to 8 hours of the following:	
		Chemistry 2*a*	2
		Mathematics 4	3
		Mathematics 4*a* and 4*b*	5
		Biology 1	3
		Geology 2	3
		Economics 1	3
		History 3*a* or 3*b*	1½
		English 2	2
		German 2	3
		Shop Work	1–2

JUNIOR YEAR	Hrs per week	SENIOR YEAR	Hrs. per week
Chemistry 3 or 4	2-3	Chemistry 8	3-5
Chemistry 7	3-5	Chemistry 14	1½
Chemistry 11	1½	Chemistry 18 (Journal Meeting)	
Chemistry 15	1	Theses (Chemistry 17)	
Physics 2 and 2*a*	4	And from 9 to 11 hours of the following:	
And from 5 to 7 hours of the following:		Chemistry 4	3
Chemistry 3*a* or 4*a*	2	Chemistry 4*a*	1-3
Chemistry 11*a*, 16	1-3	Chemistry 9, 10, 12, 14, 16	2-4
Mathematics 6	3	Physics 4 or 5	1
Mathematics 6*b*	2	Biology 7 or 8	4-5
Geology 5*a* and 5*b*	3	Geology 7 or 9	1-3
Biology 4	4	Mathematics 9*a*	1½
Scientific French	2	English 4	2
German 4*c*	2	History 4*a* or 4*b*	1
		Business Law	1½

N. B.—The B. S. C. course will be made flexible enough to meet the requirements of various classes of students; e. g., those preparing for a medical course, for graduate study in chemistry, etc. Elective, other than those given above may be offered, subject to the approval of the classification committee for the course.

COURSE FOR THE DEGREE OF B. S. IN PHYSICS.

FRESHMAN YEAR	Hrs. per week	SOPHOMORE YEAR	Hrs. per week
English 1	3	Mathematics 4*a*	3
German 1	3	Physics 2	3
Mathematics 1*c*, 2*c*	6	Physics 2*a*	2
Chemistry 1	3	Drawing 2	2
Physics 1	3	German 2	3
		And from 3 to 5 hours of the following:	
		French 1	3
		English 2	2
		Biology 1	3
		Geology 2	3
		Chemistry 5	2-3

JUNIOR YEAR	Hrs. per week	SENIOR YEAR	Hrs. per week
Physics 4	2-4	Physics 6	2
Physics 5	1½	Physics 7	2
Economics 1	3	Physics 12	3
History 2*a*, 2*b*	3	Theses	
And from 5 to 8 hours of the following:		And from 5 to 8 hours of the following:	
Mathematics 6	3	Astronomy 17	2
Geology 7	3	Physics 8	3
E. E. 5	2	Physics 11	
E. E. 8	2	Psychology 8*a*, 8*b*	3
English 4	2	History 6*a*, 6*b*	3
Botany 4	2	Chemistry 11	3
Scientific German	2	E. E. 9	3
Scientific French	1	Scientific German	2
Chemistry 6	2-5	Biology 8	4
		Geology 8	

REQUIREMENTS FOR THE DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE

1. That before a student is admitted to candidacy for a master's degree he shall have received the corresponding bachelor's degree from this University or another institution in which the course of study is fully equivalent.

2. That not less than one year intervene between the conferring of the bachelor's and master's degree.

3. That a course of study in one major, and not more than two minor, subjects, aggregating with a *thesis sixteen hours, be pursued in residence, and that fourteen of the sixteen hours be taken regularly in the class room.

4. That the major subject, occupying with the thesis, eight hours, shall be at least third-year work in a subject in which the candidate has at least six hours' credit.

5. That six hours' additional work shall be selected in not more than two closely related subjects, in each of which the candidate must have received at least six hours' credit.

6. That all work credited towards a master's degree must be done after the corresponding bachelor's degree has been received.

7. That in computing credit for a master's degree three hours of laboratory work shall be equivalent to one hour of recitation.

*See page 84.

REQUIREMENTS FOR THE DEGREES OF C. E., M. E., E. E., AND CH. E.

These courses of study are intended to give those students who have finished an undergraduate course in engineering additional preparation in some special line of work to which their previous study has led. Before a student is admitted to one of these courses he shall have received the corresponding bachelor's degree from this University or another institution in which the course of study is fully equivalent. The student will have all reasonable liberty in selecting his course which shall be subject to the approval of the heads of the departments concerned. It is expected that these courses shall comprise one principal subject based on the course already pursued, and two secondary subjects, one or both of which shall be closely related to the principal. The graduate course shall amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above mentioned degrees must be submitted to the head of the department in charge of his principal subject for approval before the beginning of the second term.

These degrees will also be given to graduates of this University in civil, mechanical, electrical, and chemical engineering who have been in successful practice of their profession for three years, and who present a statement of their work, together with a satisfactory thesis on a subject approved by the professor in charge.

Charges—Graduate students pay ten dollars for matriculation and registration, ten dollars for tuition (non-residents, five dollars) at the beginning of each session, and ten dollars in advance for the final examination. Students who fail to comply with any of these requirements will be dropped from the rolls. Should such students desire to resume their studies they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is five dollars in advance in each case.

REQUIREMENTS FOR THESES

1. Thesis subjects shall be submitted by December 15 of the year of graduation.

2. For a bachelor's thesis the minimum requirement shall be 2,500 words.

3. The thesis for the master's degree shall present the results of research, and shall be given a credit of two hours.

4. The thesis shall be submitted for criticism and approval to a committee of three, consisting of the professor under whom the candidate is doing his thesis work and two others appointed by the president. These must be submitted to the committee by May 10 of the year of graduation.

5. All these shall be neatly typewritten on paper 8x10 inches with a one inch margin. The title shall read:

Subject.....

Thesis submitted by.....to the faculty of the University of Arkansas in fulfillment of the requirement for the degree of.....

Date.....

COURSES OF STUDY LEADING TO CERTIFICATES

In pedagogy and mechanical engineering there are the following courses of study, the completion of which entitles the student to a certificate:

NORMAL COURSE.

The certificate of Licentiate of Instruction (L. I.) has been established by the board of trustees as a testimonial of one's knowledge of educational principles, and proficiency in the art of teaching. There are three conditions upon which the certificate of Licentiate of Instruction is granted:

First. To those who complete either of the prescribed courses of study as given on page 87.

Second. To those who elect their major in the department of philosophy and pedagogy. This requires a credit of eleven hours in pedagogy.

Third. Where suitable arrangements can be made with the professor in charge of a major subject, one may elect his major in another department and yet receive the L. I. at the same time that he receives his B. A. degree.

Normal Certificate a License to Teach.

The following is the law relating to the Normal Diploma:

Be It Enacted by the General Assembly of Arkansas:

"SECTION 1. That the diplomas from the teachers' training department of the University of Arkansas shall be equivalent to a teacher's professional license, which shall entitle the holder to teach in any public school in the State of Arkansas for a period of six years from and after the date of issue, and at the expiration of that said diploma may be converted into a life certificate, provided the character of the work done by the holder thereof and his or her moral character meet with the approval of the State Superintendent of Public Instruction of the State of Arkansas.

"SEC. 2. That this Act be in full force from and after its passage."

The foregoing law entitles the graduates of the University Normal School to teach in any county in the State for a period of six years; and if the character of the work done is satisfactory to the State Superintendent of Public Instruction, the certificate of Licentiate of Instruction will be converted into a life certificate. This offers special inducements to those who anticipate teaching to attend the University Normal School until they have been granted this certificate.

All the literary work required in the normal courses is done by the professors in the regular bachelor's courses.

The normal department has a well equipped training-school in which all senior normal students are required to do daily practice-teaching under the guidance of the critic teachers.

REQUIREMENTS FOR ADMISSION TO UNIVERSITY NORMAL SCHOOL.

The requirements for admission are the same as for Freshmen in the regular B. A. course, with the exception as stated on page 43, viz., that normal students may make up the required number of units for entrance to the Freshman class from either group A or B, or from both.

Normal Course with Science.

FIRST YEAR	Hrs. per week
English 1	3
History 2	3
Agriculture	3
Pedagogy 1 and 4	3
Pedagogy 3	2
Elective	3
Drawing	1
Physical Culture	1
Total	19

SECOND YEAR	Hrs. per week
English 2	3
Pedagogy 5	4
Pedagogy 6	2
Science (Elective)	3
Elective	3
Reading or Manual Training	1
Total	16

Normal Course with Latin.

FIRST YEAR	Hrs. per week
English 1	3
Latin 1 and 1a	4
Mathematics 1	4
Pedagogy 1 and 4	3
Pedagogy 3	2
Drawing	1
Physical Culture	1
Total	17

SECOND YEAR	Hrs. per week
English 2	3
Pedagogy 5	4
Pedagogy 6	2
Agriculture	3
Science (Elective)	3
Reading or Manual Training	1
Total	16

All work done in the foregoing courses is, with the exception of drawing and physical culture, credited on the B. A. course. After having completed the normal course, one may, after two years of further study, receive the B. A. degree, provided he has fulfilled the requirements as stated on pages 73 and 74.

THE TRAINING SCHOOL.

One of the important features of the training of teachers in the Normal School is the teaching in the practice-school. The first year in the normal course is devoted to literary studies and three courses in pedagogy, viz., Elementary Psychology, History of Education, and the Science of Instruction. These professional courses are necessary in order to prepare one to teach in the practice-school.

In the second year, each pupil applying for the L. I. certificate is required to observe and teach one hour each day in the practice-school. Before teaching a lesson, a plan of teaching it is required to be handed in to the critic teachers. If it is satisfactory, then the lesson is taught under the observation of the critic teachers. The cadet-teachers meet with the critic teachers at appointed times for private consultation concerning

their work. Once each week all those taking this work meet with the principal of the Training School and topics demanding immediate attention are discussed.

At the present time, all the eight grades are represented by a few children in each grade. In that way, it is possible to give practice-teaching to those who are preparing for either primary or the higher grades. Those who are preparing for high school work, do their practice-teaching in the higher grammar grades as it nearest approaches the manner of instruction required in the high school.

MECHANIC ARTS COURSE.

This course of two years is designed to meet the wants of two classes of young men:

First. Those who are not able to spend the time required for the completion of the four years' course.

Second. Those who lack the necessary preparation for admission to the collegiate classes, and do not wish to become candidates for a degree.

Special attention is given to instruction in shop work, and drawing, sufficient time being given to the former to enable the student to become familiar with its branches, and to acquire proficiency in some chosen one. The time spent in the drawing room will enable the student to make and understand machine drawings.

In the last year the technical instruction is designed to give such an elementary knowledge of mechanics, machine design, and steam machinery as will enable the student to use and care for machinery intelligently.

The work in this course is made as practical as possible. The intention is to prepare young men to hold responsible positions in power and lighting plants, pumping plants, ice and cold storage plants, shops, and wherever the intelligent operation of machinery is required.

No diploma is awarded, but a certificate will be given on the completion of the course.

COURSE FOR CERTIFICATE IN MECHANIC ARTS.

FIRST YEAR	Hrs. per week	SECOND YEAR	Hrs. per week
Algebra and Geometry	6	M. E. 3*a*, Machine Design	3
M. E. 2*a*, Mechanical Drawing	2	M. E. 5*a*, Steam Machinery	3
M. E. 4*a*, Mechanics and Hydraulics	3	M. E. 6*b*, Mechanical Laboratory	2
M. E. 6*a*,	2	E. E. 5, Electrical Laboratory	2
Shop Work	3	E. E. 12, Electrical Machinery	3
		Shop Work	3

Students entering this course must be 18 years of age.

*DESCRIPTION OF COLLEGIATE COURSES

ANCIENT LANGUAGES.

J. C. FUTRALL, *Professor.*
F. C. HAWKINS, *Adjunct Professor.*

For students entering with only two units in Latin (see page 48 of this catalogue) course A is provided. Course 1 is intended for those who offer for entrance three units, but may be taken by well-prepared students who offer only two units. Latin 1a must be taken in connection with either A or 1.

Students presenting four units of Latin for entrance will be admitted to Latin 2, but will be required to satisfy the professor of their proficiency in course 1a, or to pursue that course with the class.

Students who desire recommendations as teachers of Latin in the high schools of the State must have credit for at least ten hours of college Latin.

A. CICERO'S ORATIONS AND LETTERS (3)—Six orations and selections from the letters; a review of the forms; drill in the syntax of noun and verb. *No credit will be given for this course until course 1a has been passed.* M. Tu. Th. 1.

ADJUNCT PROFESSOR HAWKINS.

1. VERGIL'S ÆNEID (3)—Six books of Vergil's Æneid; due attention will be paid to forms and syntax, but the chief aim in this course will be to enable the student to arrive at an appreciation of the poem. A thorough study of the dactylic hexameter will be made. M. Tu. Th. 2. ADJUNCT PROFESSOR HAWKINS.

1a. PROSE COMPOSITION (1)—Bennett's Latin Writer completed, with additional exercises prepared by the instructor—Designed to accompany course A or course 1; *with the former it is required; with the latter it may be omitted, provided the student can satisfy the professor that he has passed on a course which is its equivalent.* W. 1 and 2. ADJUNCT PROFESSOR HAWKINS.

*The number to the left of the description of a course is the number of the course; the number to the right is the number of hours per week that the course is given. In general, two hours of laboratory work are considered as the equivalent of one hour of recitation. Thus a course that has two hours per week of recitation work and two hours of laboratory work is a three-hour course. Unless the contrary is stated in the description of a course, all courses run throughout the year. No professor is required to teach an elective course unless it is applied for by at least five students.

2. CICERO AND LIVY (3)—Cicero's de Amicitia and de Senectute; Livy, Burton's Selections; sight reading; Roman private life. *Prerequisite: Courses 1a and either A or 1.* M. W. F. 3.

PROFESSOR FUTRALL.

2a. PROSE COMPOSITION (1)—Nutting's Supplementary Latin Composition. *Prerequisite: Course 1a.* Th. 3.

PROFESSOR FUTRALL.

3. ROMAN PUBLIC AND PRIVATE LIFE (2)—Selections from Cicero, Pliny, Juvenal, and Martial. *Prerequisite: Course 2.*

PROFESSOR FUTRALL.

3a. PROSE COMPOSITION (1)—The translation of connected passages of idiomatic English into idiomatic Latin. *Prerequisite: Courses 2 and 2a.* W. 4.

PROFESSOR FUTRALL.

4. HORACE AND TACITUS (3)—Horace, Odes and Epodes; Tacitus, Annals; parallel and sight reading; the metres of Horace. *Prerequisite: Courses 2 and 2a.* Tu. Th. 4; W. 2.

PROFESSOR FUTRALL.

5. ROMAN POETS (3)—Readings will be taken from Plautus, Terence, Catullus, Horace, Juvenal, and others, and the attention of the student will be directed rather to the literary side of the authors read than to grammatical and syntactical peculiarities. The metres of Plautus and Terence will be carefully studied. Course 5 may be taken twice and counted towards a degree, as the readings will be changed in successive years. *Prerequisite: Courses 2a and 3 or 4.*

PROFESSOR FUTRALL.

Text-books. Bennett's and Gildersleeve's Grammars; Wilkins' Primer of Roman Literature; Crutwell's Roman Literature. Any approved edition of the Latin authors may be used, except when certain editions are prescribed. Lexicons: Harper, Lewis, White.

GREEK.

Courses 1 and 2 are designed to give students who do not present entrance credits in Greek an opportunity to begin the study of the language. Those having an entrance credit of three units will be admitted to course 3.

1. ELEMENTARY COURSE (4)—White's Beginner's Greek Book, with selections from Xenophon's Anabasis. A thorough mastery of the forms and constructions given in this book is required. M. T. W. Th. 4. ADJUNCT PROFESSOR HAWKINS.

2. XENOPHON AND LYSIAS (4)—This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar. *Prerequisite: Course 1.* M. W. Th. F. 6.

ADJUNCT PROFESSOR HAWKINS.

3. HOMER AND PLATO (3)—Systematic study of the grammar; prose composition; Greek literature; sight reading. *Prerequisite: Course 2.* M. 4, Th. F. 2. PROFESSOR FUTRALL.

4. GREEK HISTORIANS (2)—Selections from Herodotus and Thucydides. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

5. ADVANCED PROSE COMPOSITION (1)—Weekly written exercises. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

6. THE ATTIC DRAMA (3)—Readings from Æschylus, Euripides, Sophocles, and Aristophanes. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

Text-books. Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Collar and Daniell's Prose Composition; Higley's Exercises in Greek Composition. Any approved edition of the Greek authors may be used, except when certain editions are prescribed. Liddell and Scott's Lexicons are recommended.

BIOLOGY.

F. W. PICKEL, *Professor.*

The courses of this department have been arranged to meet the needs of three classes of students; those who desire to become acquainted with the fundamental principles of plant and animal life; those who contemplate the study of medicine; and those wishing to go more thoroughly into the study of biological science to obtain the technical training necessary for subsequent investigation or for teaching.

1. GENERAL BIOLOGY (3)—This course serves as an introduction into the whole field of biological science, *and should be a part of the general education of every student.* Types of plants and animals will be dissected and studied in the laboratory, and the essential truths of biology emphasized. The first term is devoted to the study of animals, the second to plants. One recitation and laboratory work, four hours per week throughout the year. Tu. Th. 6 and 7. F. 6.

PROFESSOR PICKEL.

2. BOTANY (3)—In this course special attention is paid to the morphology, physiology, and ecology of plants, but due attention is given in the second term to the systematic classification of plants, and each student is required to collect and write a technical description of a certain number of plants. The geological history of plants and the origin of cultivated plants will be briefly considered. Field work, when practicable, will form an important feature of the course. Recitation and laboratory work six hours per week throughout the year. M. W. 6 and 7; F. 7. PROFESSOR PICKEL.

3. ADVANCED BOTANY (3)—A lecture and laboratory course on the morphology, physiology, and the diseases and injuries of plants. One lecture and four hours' laboratory work per week throughout the year. *Prerequisite: Botany 2.* Tu. Th. 5 and 6; F. 4. PROFESSOR PICKEL.

4. BACTERIOLOGY (4)—An introduction to the subject, and instruction in laboratory technique—the preparation of nutrient media, the characteristics of bacteria, the kind and effects, isolating and keeping pure cultures, microscopical preparations, the study of bacteria found in soil, in water, and in air; study of pathogenic forms and their relation to disease. One lecture and six hours' laboratory work per week throughout the year. *Prerequisite: Chemistry 1, Biology 1.* M. 1, Tu. W. F. 2 and 3. PROFESSOR PICKEL.

5. GENERAL ZOÖLOGY (3)—A general course in invertebrate and vertebrate morphology. Attention will be given to the fundamental facts of zoölogical science and the laws of development, heredity, variation, correlation, etc. In connection with the laboratory work in the course, instruction will be given to such students as desire to learn methods of preparing bird skins and mammal skins for laboratory and museum specimens. Field work, when practicable, will form an important feature of the course. The first term is devoted to the study of invertebrate animals; the second to vertebrate animals. One recitation and four hours, laboratory work per week throughout the year. M. F. 3 and 4, W. 5. PROFESSOR PICKEL.

6. COMPARATIVE ANATOMY OF VERTEBRATES (3)—Recitations and demonstrations dealing with the comparative anatomy of acrania, cyclostomes, sharks, fishes, amphibians, reptiles, birds and mammals. Laboratory work on selected types of the different

groups. One recitation and four hours' laboratory work per week throughout the year. *Prerequisite: Biology 1, or General Zoölogy 5.* M. 2, W. F. 1 and 2. PROFESSOR PICKEL.

7. ANIMAL HISTOLOGY AND EMBRYOLOGY (5)—This course is offered to students intending to study medicine, but is open to any student who has completed biology 1. It consists of instruction in histological and embryological methods of technique to acquaint the student with the principles of histology and embryology. Two lectures and six hours' laboratory work per week throughout the year. Tu. Th. 1, W. F. 2, 3, 4.

PROFESSOR PICKEL.

8a. ELEMENTARY PHYSIOLOGY (4)—This course is intended for students who desire a general knowledge of physiology and personal hygiene of the human body. It is especially adapted for teachers and also recommended for students of sociology and psychology. Two recitations and four hours laboratory per week throughout the year. M. W. 2 and 3. and T. Th. 1.

PROFESSOR PICKEL.

8. PHYSIOLOGICAL CHEMISTRY (4)—The physiology of foods, digestion, and nutrition; the blood circulation and respiratory mechanism; the excretion, especially analysis of urine; functions of brain and spinal cord; physiology of nerve and muscle. Two lectures and four hours' laboratory work a week throughout the year. *Prerequisite: Chemistry 1; Elementary Physiology.* M. and F. 2. Tu. Th. 2 and 3. PROFESSOR PICKEL.

9. NATURE STUDY (1)—A special course in nature study, its aim, methods, etc., and systematic science teaching will be offered to students who expect to teach. One lecture per week throughout the year. *Prerequisite: Biology 1.*

PROFESSOR PICKEL.

CHEMISTRY.

CHARLES G. CARROLL, *Professor.*
H. E. MORROW, *Associate Professor.*

1. ELEMENTARY CHEMISTRY (3)—Lectures and recitations three hours a week; laboratory exercises one afternoon a week. *Prerequisite: Elementary Physics.* PROFESSOR CARROLL.
ASSOCIATE PROFESSOR MORROW.

1a. ELEMENTARY CHEMISTRY (2)—Two hours per week in addition to the work of chemistry 1. *Required of students in*

the courses in Agriculture; first and second terms of the Sophomore year. ASSOCIATE PROFESSOR MORROW.

1b. DESCRIPTIVE CHEMISTRY (2)—Elementary chemistry treated descriptively and historically. Lectures and recitations two hours per week. Laboratory work may be done in connection with the course, credit for which will be in proportion to the amount of time devoted. (*Primarily for B. A. students whose majors are not in science.*) PROFESSOR CARROLL.

2. GENERAL INORGANIC CHEMISTRY (3-4)—Lectures and recitations three hours per week. *Smith's General Inorganic Chemistry* is the text-book used. Three hours of work are required. An additional hour is optional. M. T. W. Th., 1.
PROFESSOR CARROLL.

2a. LABORATORY EXERCISES TO ACCOMPANY CHEMISTRY 2 (1-2)—Smith's *Laboratory Outline of General Chemistry* is used as a basis for the work. PROFESSOR CARROLL.

3. ELEMENTARY ORGANIC CHEMISTRY (2)—Lectures and recitations twice a week. Moore's *Outline's of Organic Chemistry* is the text-book used. *Prerequisite: Chemistry 1.*
ASSOCIATE PROFESSOR MORROW.

3a. LABORATORY EXERCISES IN ORGANIC CHEMISTRY (1-2)—To accompany chemistry 3. ASSOCIATE PROFESSOR MORROW.

4. ADVANCED ORGANIC CHEMISTRY (3)—Lectures and recitations three hours per week.
ASSOCIATE PROFESSOR MORROW.

4a. ORGANIC PREPARATIONS (1-2)—Exercises in organic chemistry, with the manuals of Gattermann, Levy, and Fischer as a basis. This course should be taken in connection with Chemistry 4. ASSOCIATE PROFESSOR MORROW.

5. QUALITATIVE ANALYSIS (2-3)—One lecture or conference per week, with laboratory work, during either term or throughout the year. *Prerequisite: Chemistry 1.*
PROFESSOR CARROLL,
ASSOCIATE PROFESSOR MORROW.

6. QUANTITATIVE ANALYSIS (2-5)—One lecture or conference per week with laboratory work, for one term or during the year. The credit given will depend on the quality of the work and the

number of determinations made. The course will be varied to suit the needs of individual students. *Prerequisite: Chemistry 5.*
PROFESSOR CARROLL.

7. QUANTITATIVE ANALYSIS (2-5)—Occasional lectures and conferences. More complicated gravimetric and volumetric processes of analysis. Credit determined as for Chemistry 6.
PROFESSOR CARROLL.

8. QUANTITATIVE ANALYSIS (2-5)—A continuation of course 6 or course 7. The work done will be varied to suit the needs of the student. Engineering students may perform exercises in technical gas analysis, the analysis of fuels, oils, etc. *Prerequisite: At least 1½ hours of Chem. 5 and Chem. 6.*
PROFESSOR CARROLL.

9. WATER ANALYSIS (2-3)—A course in the methods of sanitary and technical water analysis, primarily for engineering students. The discussion and interpretation of results of the various analyses will be illustrated in occasional lectures and conferences. *Prerequisite: At least 1½ hours of Chemistry 5 and Chemistry 6.* PROFESSOR CARROLL.

10. ELECTRO-CHEMICAL ANALYSIS (2-5)—Quantitative analysis by electrolysis. Laboratory exercises with occasional lectures during the year or either term. PROFESSOR CARROLL.

11. PHYSICAL CHEMISTRY (3)—Lectures three hours per week for one term. *Prerequisite: Chemistry 1 and a certain amount of Chemistry 5 and 6; Mathematics 1a; Physics 1, 1a.*
PROFESSOR CARROLL.

11a. LABORATORY EXERCISES IN PHYSICAL CHEMISTRY (2-3)—To accompany Chemistry 11. PROFESSOR CARROLL.

12. TEACHER'S COURSE (3)—Two hours of lectures and conferences and three hours of practice per week. Designed for prospective high school teachers. *Prerequisite: Chemistry 1, 2, 3, 5, 6, 11.* PROFESSOR CARROLL.

13. ELECTRO-CHEMISTRY (3)—Elementary theoretical and applied electro-chemistry. *Prerequisite: Physics 2, Chemistry 1.* Lectures and laboratory exercises during one term.
PROFESSOR CARROLL.

14. HISTORY OF CHEMISTRY (2)—Lectures, assigned readings and reports, during one term. PROFESSOR CARROLL.

15. CHEMICAL COLLOQUIUM (2)—Readings and discussions two hours per week, during the year. Articles in German and French chemical journals are the basis of the work.

PROFESSOR CARROLL

16. QUALITATIVE AND QUANTITATIVE SPECTRAL ANALYSIS AND COLORIMETRY (3)—One lecture per week and laboratory exercises in spectral analysis and colorimetry, during either term. Krüss's *Kolorimetrie und Quantitative Spectral-Analyse* and Formanek's *Die Qualitative Analyse Anorganischer Körper* will be used for reference. *Prerequisite: Chemistry 5, Chemistry 6.*

PROFESSOR CARROLL.

17. RESEARCH WORK—Problems in research will be given to graduate students and to others competent to undertake such work. A reading knowledge of German and French is indispensable.

PROFESSOR CARROLL.

18. JOURNAL MEETING (1)—The instructors and advanced students of the department meet once a week for discussion of articles in the current chemical journals.

ECONOMICS AND SOCIOLOGY.

C. H. BROUGH, *Professor.*

NEIL CAROTHERS, *Associate Professor.*

The courses offered in this department are designed to give instruction in the fundamentals of economic theory and the problems of current economic, social, and public interest, and to prepare students for the duties of citizenship and participation in the professions of law, politics, journalism, financiering, and teaching—in short, for business and professional careers.

Economics 1 is a prerequisite for all courses except 2, 7, 9, and 10. Courses 6, 7, 10, and 11 are open to Juniors and Seniors only. Credit may be granted for one term's work in courses 1, 2, 3, 5, 7, 8, 10, and 11. A special section will be open to twenty-five well-prepared Freshmen.

1. PRINCIPLES OF ECONOMICS (*both terms*) (3)—Texts: Bullock's Introduction to the Study of Economics Ely's Outlines of Economics (revised and enlarged), with assigned reading amounting to seventy-five pages in carefully selected works on economics outside of the texts. Prerequisite to all economic courses except

2, 7, 9 and 10. Section 1, M. Tu. Th. 1; section 2, M. W. F. 2; section 3, M. W. F. 3; section 4, M. W. F. 4; section 5, to be arranged later.

PROFESSOR BROUGH.
ASSOCIATE PROFESSOR CAROTHERS.

2. BUSINESS LAW (*both terms*) (3)—A study is made in this course of the laws of Arkansas, the law of contracts, bills, cheques, and notes, agency, and other elements of business law. The regular text-book work will be supplemented by lectures by President Tillman of the University, formerly Circuit Judge, on topics connected with the course, and by moot court work in the law club which meets Saturday afternoon. Membership in the law club is purely optional, but all students contemplating the study of the law are urged to join. Texts: Kirby's Digest of Arkansas Laws; Harriman on Contracts; Huffcut's Elements of Business Law. T. 6, W. 1, F. 1.

PROFESSOR BROUGH.

3. (*a*) TRANSPORTATION AND ITS PROBLEMS (*first term*) (3)—The railway systems of the United States and foreign countries, railroad geography, rate making, government versus private ownership and control, and the enlargement of the powers of the Interstate Commerce Commission are considered. *Texts:* Johnson's American Railway Transportation; Johnson's Ocean and Inland Waterway Transportation, supplemented by lectures, assigned readings, Reports of the Interstate Commerce Commission, and Newcomb's Facts About Railroads. M. 5, T. 2, Th. 2. ASSOCIATE PROFESSOR CAROTHERS.

(*b*) MONEY AND BANKING (*second term*) (3)—The theory of money, banking and credit is considered, and current financial problems and practical banking is stressed. Special stress is given a consideration of the Independent Treasury system and the pending proposal of a Central Bank for the United States. *Texts:* White's Money and Banking (revised edition); Fiske's The Modern Bank. ASSOCIATE PROFESSOR CAROTHERS.

4. (*a*) INSURANCE (*first term*) (3)—A thorough study of life, fire, accident, liability, industrial, and marine insurance, of the work of the insurance agent, and the policies of insurance companies. *Texts:* Alexander's The Life Insurance Company; Insurance (Special Volume of the Annals of the American Academy). In this course opportunity is given to contest for

valuable prizes offered by the A. B. Banks Company, of Fordyce, and Mr. W. B. Collins, of Fort Smith, M. 6, W. 6, F. 6.
ASSOCIATE PROFESSOR CAROTHERS.

(*b*) INSURANCE AND TRUST FINANCE (*second term*) (3)—A continuation of the study of insurance and an intensive study of the forms of corporate organization. *Texts:* Annals of the American Academy (special volume); Mead's Trust Finance. M. 6, W. 6, F. 6. ASSOCIATE PROFESSOR CAROTHERS.

5. (*a*) FINANCIAL HISTORY OF THE UNITED STATES, TAXATION AND PUBLIC FINANCE (*first term*) (3)—A thorough investigation is made of the financial history of the United States, and an intensive study is made of the problems of taxation, municipal ownership, and financial administration. *Texts:* Dewey's Financial History of the United States; Seligman's Essays on Taxation; supplementary readings in Whinery's Municipal Works, Porter's Dangers of Municipal Ownership, the Report of the Civic Federation, and Fairlie's Municipal Administration. M. 7, T. 4, Th. 4. ASSOCIATE PROFESSOR CAROTHERS.

(*b*) ECONOMIC HISTORY OF THE UNITED STATES—A comprehensive study is made of the evolution of our industrial history. *Texts:* Bogarth's Economic History of the United States, World's Almanac (current issue).
ASSOCIATE PROFESSOR CAROTHERS.

6. (*a*) SOCIALISM AND SOCIAL REFORM (*first term*) (2)—A study of socialism and social reform, involving a consideration of such practical questions as the government ownership and control of public utilities, the single tax, and coöperation. *Text:* Ely's Socialism and Social Reform. Collateral reading in George's Progress and Poverty; Gilman's Socialism and the American Spirit, and current periodicals. Frequent lectures on different phases of Socialism. T. 6, Th. 6.
ASSOCIATE PROFESSOR CAROTHERS.

(*b*) THE LABOR QUESTION (*second term*) (2)—A study of the purposes and fundamental principles of trades unions, strikes, lockouts, boycotts, blacklists, arbitration, conciliation, and injunction, both from the standpoint of the laborer and capitalist. *Texts:* Mitchell's Organized Labor; Bolen's Getting a Living. T. 6, Th. 6. ASSOCIATE PROFESSOR CAROTHERS.

7. (*a*) PRINCIPLES OF SOCIOLOGY (*first term*) (2)—This course considers the elements of social growth and progress, describes

social institutions, and suggests practical social reforms. *Texts:* Wright's Practical Sociology. Supplementary readings on population, immigration, liquor, divorce, prison administration, and slum problems. T. 7, Th. 7.

ASSOCIATE PROFESSOR CAROTHERS.

(*b*) MODERN METHODS OF CHARITY (*second term*) (2)—A study of the problems of poverty, its causes, results and remedies, together with questions of poor relief and organized charity. *Text:* Devine's Methods of Poor Relief. T. 7, Th. 7.

ASSOCIATE PROFESSOR CAROTHERS.

8. ECONOMIC PROBLEMS OF THE PRESENT (*both terms*) (3)—Lectures, debates, and discussions of the tariff, trust, labor, ship subsidy, railroad, government ownership, municipal monopoly, socialism, income tax, inheritance tax, injunction, land reform, and prohibition problems. One period each week is devoted to lectures by the Professor in charge on these current economic questions; one, to debates by members of the class; one, to discussions and reports on these questions in class. Tarbell's Congressional Records, books, and current periodicals are freely consulted. M. 6, T. 5, Th. 3.

PROFESSOR BROUGH.

The Tariff in Our Times, Seligman's Income, Taxation, Kennan's Income Taxation.

9. ENGINEERING LAW (*both terms*) (3)—Elective for Juniors and Seniors in Engineering. *Texts:* Kirby's Digest of Arkansas Laws; Wait's Engineering and Architectural Jurisprudence, with supplementary readings in Johnson's Contracts and Specifications; Clark's Building Superintendence, and Clark's Architect, Owner and Builder Before the Law. M. 4, W. 4, F. 4.

PROFESSOR BROUGH.

10. ECONOMIC LAW (*both terms*) (3)—A study of law with special reference to real estate, corporations, injunctions, and evidence. *Texts:* Walker's American Law; Greenleaf on Evidence (16 ed.), with supplementary readings in Clark on Corporations, High on Injunctions, Cook's Stock and Stockholders, Stimson's Handbook of Labor Law. T. 3, W. 3, F. 3.

PROFESSOR BROUGH.

11 CHILD LABOR, EMPLOYER'S LIABILITY, AND WORKINGMEN'S COMPENSATION ACTS (*both terms*) (3)—A thorough study is made of these vital problems of current economic and political

interest, involving an analysis of the various State and Federal laws on these topics. *Texts:* Special volume of the Annals of the American Academy of Social and Political Science, Doherty's Liability of Railroads to Interstate Employees, and the Reports of the Commissioner of Labor, 1908 *et seq.* on Workingmen's Compensation Acts. M. 7, Tu. 4, Th. 4.

PROFESSOR BROUGH.

ENGLISH.

EDGAR F. SHANNON, *Professor.*
GARLAND GREEVER, *Associate Professor.*
VIRGIL L. JONES, *Associate Professor.*
J. ROGER WILLIAMS, *Instructor.*
C. T. GOODE, *Instructor.*

1. LITERARY HISTORY AND COMPOSITION (3)—The class meets twice a week for instruction in the outline history of English literature and study of the selected readings, and once a week for the study of composition and rhetoric. Text-books: Simonds's *History of English Literature,* Lamont's *English Composition.* An outline of the course will be furnished each student at the first meeting of the class. *Required of all Freshmen.*

ASSOCIATE PROFESSOR GREEVER.
ASSOCIATE PROFESSOR JONES.
MR. WILLIAMS.
MR. GOODE.

2. HISTORY OF THE CHIEF FORMS OF LITERATURE, ELEMENTARY ANGLO-SAXON AND COMPOSITION (3)—The class meets as a whole once a week for lectures on literature, and in small sections twice a week for the study of Anglo-Saxon and Composition. *Text-books:* Smith's *Old English Grammar,* Wendell's *English Composition,* Nutter, Hersey and Greenough's *Specimens of Prose Composition.* An outline giving the required readings in the forms of literature will be furnished each student at the first meeting of the class. *Required of all Sophomores in the B. A. Course; elective for others who have credit for English 1.*

PROFESSOR SHANNON.
ASSOCIATE PROFESSOR GREEVER.
ASSOCIATE PROFESSOR JONES.

3. AMERICAN LITERATURE (*second term*) (3)—After a brief survey of colonial and revolutionary literature a fuller study is given to Irving, Cooper, Bryant, Poe, Emerson, Lowell, Longfellow, Hawthorne, Whittier, Holmes, and Whitman, followed by a consideration of the minor poets of the South. *Open to students who have credit for English 1.* MR. WILLIAMS.

Omitted in 1912-13.

4a. ADVANCED COMPOSITION: EXPOSITION AND ARGUMENTATION (*first term*) (3)—The purpose of this course is to teach advanced students the principles of Exposition and Argumentation and to develop reasoning power as well as the ability to write clear and vigorous prose. As training in thorough investigation each student is required during the term to do extensive reading upon some subject and present the results of his work in a thesis which may be either expository or argumentative in character. *Text-books:* Gardiner's *Forms of Prose Literature*, Foster's *Argumentation and Debating*, and the current numbers of the *Atlantic Monthly*. *Open to students who have credit for English 2.*

ASSOCIATE PROFESSOR GREEVER.
ASSOCIATE PROFESSOR JONES.

4*b*. ADVANCED COMPOSITION: NARRATION AND DESCRIPTION (*second term*) (3)—This course is intended for advanced students who are interested in Composition from a literary standpoint. The art of description and the structure of the short story will be studied. *Open to students who have credit for English 2.*

[Instructor to be announced.]

5. NINETEENTH CENTURY PROSE (3)—(*a*) The first term is devoted to a study of the novel beginning with its development in the eighteenth century. Considerable reading in the works of the chief novelists and frequent written reports are required.

(*b*) The second term deals with the essay. Attention is given chiefly to Lamb, Macaulay, Carlyle, Newman and Arnold. Reading and reports.

This course may be elected for either term. *Open to students who have credit for English 2.* MR. WILLIAMS.

6. SIXTEENTH CENTURY LITERATURE (3)—(*a*) The work of the first term deals with the non-dramatic literature of this period. A study is made of the Elizabethan lyric and the beginnings of English prose style. Lectures, assigned reading, and reports.

(*b*) The second term is devoted to a study of the pre-Shakesperean drama. Its development is traced from the miracle and morality plays to Shakespere. Reading and reports. *Text-book:* Manly's *Specimens of the Pre-Shakespearean Drama*, 2 volumes.

This course may be elected for either term. *Open to students who have credit for English 2.* PROFESSOR SHANNON.

7. SEVENTEENTH CENTURY LITERATURE (3)—(*a*) The course course includes for the first term the works of Bacon, Browne, and Walton and the lyrics of the reigns of James I and Charles I. Lectures, assigned reading, and reports. *Text-book* for the lyrics: Schelling's *The Seventeenth Century Lyrics.*

(*b*) The second term is devoted to an intensive study of the life and poetry of Milton.

This course may be elected for either term. *Open to students who have credit for English 2.* Omitted in 1912-13.

ASSOCIATE PROFESSOR JONES.

8. EIGHTEENTH CENTURY LITERATURE (*first term*) (3)—This course includes the prose and poetry of the period of Classicism in English literature. It deals chiefly with the works of Defoe, Swift, Addison, Steele, Pope, Johnson, Goldsmith and Burke. Lectures, assigned reading, and reports. *Open to students who have credit for English 2.* ASSOCIATE PROFESSOR GREEVER.

Omitted in 1912-13.

9. NINETEENTH CENTURY POETRY (3)—(*a*) The work of the first term traces the development of the romantic movement in English poetry from its beginning in the eighteenth century to the death of Keats. Especial attention is given to the poetry of Wordsworth, Coleridge, Byron, Keats and Shelley.

(*b*) The second term will be devoted to the Victorian poets, especially Tennyson and Browning.

This course may be elected for either term. *Open to students who have credit for English 2.* MR. GOODE.

10. CHAUCER (3)—The course is a study of Chaucer's language and literary style for the purpose of comprehending his genius as a poet. *Text-books:* Liddell's *Chaucer: Prologue Knight's Tale and Nun's Priest's Tale*, and Skeat's *Student Chaucer.* Students must have the consent of the instructor before electing this course. *Open to Juniors and Seniors who have credit for English 2.* PROFESSOR SHANNON.

11. ANGLO-SAXON (*second term*) (3)—The purpose of this course is to give students a knowledge of the earliest form of English, and constant comparison of Modern English with Anglo-Saxon is made. *Text-books:* Bright's *Anglo-Saxon Reader*, Lounsbury's *History of the English Language. Open to students who have credit for English 2.* PROFESSOR SHANNON.

12. SHAKESPEARE (3)—Six plays are studied with a view to a thorough understanding of Shakespere's language and thought and the manners and customs of his time. *Open to students who have credit for English 2.* ASSOCIATE PROFESSOR JONES.

NOTE—Students who select English as their major subject are required to take, besides English 1 and 2, twelve hours from the following courses: English 4a or 4b in the Junior year; two courses from English 10, 11, and 12; and the remaining number of hours from English 4a, 4b, 5, 6, 7, 8, 9, 10, 11, and 12.

GEOLOGY AND MINING.

*A. H. PURDUE, *Professor of Geology and Head of the Department.*
**A. A. STEEL, *Professor of Mining.*
KIRTLEY F. MATHER, *Instructor in Geology.*

GEOLOGY.

This department, which occupies nearly all of the fourth floor of University Hall, is unusually well equipped with relief maps, minerals, rock specimens, and maps. Ample space for additional laboratories has recently been secured. The department library, with its collection of more than three thousand books and pamphlets, is so placed as to be of most use to students; most of the American periodicals bearing upon geology, geography, and mining, as well as representatve foreign magazines come regularly to the department's reading room.

In its instruction, the department places much emphasis upon field work. We have within easy reach the formations from the Cambro-Ordovician to the Pennsylvanian, inclusive. The Ozark plateau region about Fayetteville offers abundant opportunity for

*Absent on leave after March 1, 1912.
**Absent on leave, June 1911, to March 1, 1912.

physiographic studies while for training in stratigraphic mapping it is unexcelled. The mild winters and absence of snow in this climate make the field season of unusual length.

Students who major in the department of geology are required to take courses 2a (or 1), 2b, 3a, 3b, 4a, 5a, 5b, 7, and 8. Those who are intending to fit themselves for positions on the United States Geological Survey are expected to complete, in addition, courses 4b, 9 and 10. Those who are desirous of qualifying as teachers in this science are advised to so arrange their electives as to prepare themselves to teach Geology and some modern language, or Geology and some other science. All major students in Geology are required, in their senior year, to prepare a report including maps, sections, and other necessary illustrations of some area where they have worked out the geology.

Students taking the course in mining engineereing are required to complete courses 2a, 2b, 3a, 3b, 5a, 5b, 7, and 9 in Geology.

To students in agriculture course 1 (or 2a and 2b) is recommended.

To students desiring a general educational knowledge of the subject courses 2a and 2b are recommended.

Students who are preparing themselves to teach physical geography and physiography are expected to complete courses 1a, 1b, 3b, and 2b.

GEOLOGY 1. PHYSIOGRAPHY (*both terms*) (3). An elementary course suited to Freshmen, and adapted to the needs of teachers of physical geography in secondary schools. Geological agents and processes; earth relations; meteorology; oceanography. *Text:* Physiography, by R. D. Salisbury. M. T. W., 6 and 7.

PROFESSOR PURDUE.
MR. MATHER.

GEOLOGY 2. GENERAL GOELOGY. (*a*) DYNAMIC AND STRUCTURAL GEOLOGY (*first term*) (3)—The materials of the earth; the geological work of the atmosphere and water (including streams, lakes, the ocean, and underground water); glaciers and glaciation diastrophism; vulcanism. *Text:* College Geology, Chamberlin and Salisbury. *Prerequisites:* High school physiography or chemistry 1 or physics 1.

(*b*) HISTORICAL GEOLOGY (*second term*) (3)—The origin of the earth; earth history; the evolution of life. *Text:* same as in Geology 2a. *Prerequisites:* Geology 1 or 2a. M. T. W., 2.
PROFESSOR PURDUE.
PROFESSOR STEEL.

GEOLOGY 3a. PRACTICAL GEOLOGY (*either or both terms*) (3)—Field and laboratory work nine periods a week with the construction of geologic maps and sections. *Prerequisite:* Geology 1 or Geology 2b. PROFESSOR PURDUE.
PROFESSOR STEEL.
MR. MATHER.

GEOLOGY 3b. PRACTICAL GEOLOGY (*first term*) (3)—A laboratory course in geology including the study of rocks and minerals, specimens showing geological phenomena, topographic maps. Nine periods a week throughout the first term. *Prerequisites:* Geology 1, of Geology 2a. PROFESSOR PURDUE.
PROFESSOR STEEL.
MR. MATHER.

GEOLOGY 4a. GEOLOGIC LIFE DEVELOPMENT (*first term*) (3)—A study of the introduction and succession of the ancient forms of life in their geological relationships, constituting historical geology, studied from the biological side. *Prerequisite:* Geology 2b. M. T. W., 7. MR. MATHER.

GEOLOGY 4b. STRATIGRAPHIC PALEONTOLOGY (*second term*) (3)—Field and laboratory work involving the collection of a local fauna, its identification, description, and correlation. *Prerequisite:* Geology 4a. MR. MATHER.

GEOLOGY 5a. CRYSTALLOGRAPHY AND MINERALOGY (*first term*) (3)—Lectures and recitations three hours a week during the first term on the elements of geometric crystallography followed by laboratory work upon the determination of minerals. *Text:* Determinative Mineralogy, by Brush. *Prerequisite:* Soid geometry and chemistry 1. Th. F., 5, 6, 7, 8. MR. MATHER.

GEOLOGY 5b. DETERMINATIVE MINERALOGY AND BLOW-PIPE ANALYSIS (*second term*) (2, 3, or 4)—Determination of minerals before the blow-pipe, and in the wet way. *Text:* Determinative Mineralogy, by Brush. *Prerequisite:* Chemistry 1. Th. F., 5, 6, 7 and 8. PROFESSOR STEEL.

GEOLOGY 7. ECONOMIC GEOLOGY *(second term)* (3)—The formation, modes of occurrence, uses and geographic distribution of economic geological products. *Prerequisites:* Chemistry 1, Geology 2b, Geology 5b. PROFESSOR STEEL.

GEOLOGY 8. ROCKS AND METAMORPHISM *(first term)* (2)—Recitations and laboratory work two periods per week on the classification of rocks and their formation, destruction and alteration. *Prerequisites:* Geology 2b, and 5b. MR. MATHER.

GEOLOGY 9. ADVANCED MINERALOGY *(second term)* (2)—Recitations and laboratory work on the variations, association, and alterations of minerals. *Prerequisite:* Geology 8. MR. MATHER.

GEOLOGY 10. PETROLOGY *(both terms)* (3)—Microscopical and macroscopical determination of minerals and rocks; classification of igneous rocks. *Prerequisite:* Geology 8. MR. MATHER.

Mining Engineering.

The four years' course in mining engineering outlined on page 78 is planned to give that instruction in the underlying principles of geology and mining engineering, which can be acquired only with great difficulty outside of the colleges. Effort will be made to train the student in original thinking and the ready adaptation of means to the unusual conditions so common in mining.

The practical work of mining, metallurgy, and ore dressing can be learned so much more rapidly and effectively by actual work that no laboratory instruction in these lines is offered at the University. The students are expected to spend parts of at least two summer vacations at ordinary day's work in some mine, mill, or smelter, where they will be expected to ask questions of the workmen and keep notes of their observations, and compute the costs of some detailed operations. This plan, besides preparing the students for the study of the principles involved in their work, also gives them a useful knowledge of the workmen with whom they must deal, and tends to break down the prejudices on both sides.

This course in mining is designed to make specialists in mining geology and mining operating, rather than all-round technical men. Hence a large part of the student's time is spent upon

work in the department of geology and mining, but the necessary fundamental work in mathematics and applied science is not slighted, and enough work is required in the other technical departments to enable the graduates to solve the simpler problems of civil, mechanical, and electrical engineering, and metallurgy, and to judge of the qualifications of specialists in these lines, when in charge of large properties. There is also enough laboratory and field work required to fit the young mining engineer to do all the analytical work, assaying, surveying, drafting, and designing needed at the average mine, while he is acquiring the experience and prestige necessary for more responsible and executive positions.

Some of the work in ore dressing, assaying, and advanced mineralogy can be omitted by students who have definitely decided to engage in coal mining. Additional mechanical and electrical engineering work is recommended for such students.

While the course is not especially exacting, it is severe and should be undertaken only by students well prepared mentally and in good health. To accomplish all the work well, the average student will have to devote seven or eight hours per day, six days per week, to his college work during the academic year.

*Mining.

1. INTRODUCTORY COURSE (2)—Descriptive treatment of a few of the more common methods of mining now practiced, preliminary to the study of actual mining during the summer vacation. A general basis for later detailed and critical courses. Lectures or recitations twice a week during second term. *Prerequisites: Chemistry 1, Physics, 1.* PROFESSOR STEEL.

2. DETAILS OF MINING OPERATIONS (2)—Methods, tools, rate of progress and comparative cost of; excavation of earth; drilling and blasting of rock; driving and timbering of tunnels in hard and soft ground; boring for various purposes, and shaft sinking and timbering. Also a discussion of the nature and use of common explosives, and the special methods of mining. Outside reading with lectures or recitations twice a week throughout the year. *Prerequisites: Mining 1.* PROFESSOR STEEL.

*The courses in Mining and Metallurgy may not be given in 1912-13 unless another instructor is added to the teaching force of the department.

3. ADVANCED MINING (3)—(*a*) A critical study of the different methods of exploration, development and working of mineral deposits. Practice in selecting the methods best suited to certain assigned conditions, and combining the good features of various established systems of mining. Lectures or recitations three times a week the first ten weeks of the year.

(*b*) MINING ADMINISTRATION—Organization of staff for large and small mines; purchase of supplies and disposal of product; management of labor; elements of mining law; mine accounts and cost sheets. Three times per week for seventeen weeks following course (3*a*).

(*c*) MINE EXAMINATIONS—Sampling of ore bodies; estimation of average value, and available and probable tonnage of ore in the mine; character and form of maps and expert reports. Outside drawing and lectures or recitations three times a week last seven weeks of the term.

This course is open only to students whose major is taken in the department of Geology and Mining. PROFESSOR STEEL.

4. ENGINEERING PROBLEMS OF MINES (3)—(*a*) Applications of civil engineering to mining. Surface and underground handling, transportation and storage of minerals; mine buildings, trestles, ore bins, etc.; mineral railroads, common roads; water supply; drainage of mines; methods of ventilation; accidents to men; underground surveying. Lectures and conferences three times a week, first term, with outside reading, designing and detailed drawing. *Prerequisites: C. E. 2 and 3; M. E. 4 and 9.*
PROFESSOR STEEL.

(*b*) MINE PLANT—Description and critical discussion of the mechanical equipment of mines; hoisting engines, ropes, skips, cages, and head frames; various types of pumping machinery; air compressors and the transmission of power by compressed air; machine drills; mine cars and tracks; underground haulage plant; practice in the selection of mining machinery from trade catalogues. Lectures and conference three times a week, second term. Outside reading and detailed drawing. *Additional prerequisite: M. E. 5. Either term may be elected separately.*
PROFESSOR STEEL.

8. ORE DRESSING—General principles and theory of ore dressing; hand dressing; cleansing; crushing; sizing and classifying; jigging sized and unsized products; table concentrating;

stamp milling of gold and silver ores; descriptions of typical ore dressing works; practice in outlining schemes of ore dressing under assigned conditions. *Text-book:* Richard's Ore Dressing. Recitations and conference twice a week, two terms. *Prerequisites: Geology 5, Mechanical Engineering 4 and 5.*

PROFESSOR STEEL.

Metallurgy.

1. GENERAL METALLURGY (1½ or 3)—Elementary study of fuels and furnaces and the metallurgy of iron and steel, copper, lead, silver, and gold. Lectures or recitations three times a week first term. M. W. F. 4. If desired by a sufficient number of students the course will be continued through the second term, taking up the metallurgy of the minor metals and the more important wet chemical methods of extracting metals from their ores. *Prerequisite: Chemistry 1.* PROFESSOR STEEL.

2. ASSAYING (1 or 1½)—Fire assaying of various classes of ores and furnace products for gold, silver, and lead. Laboratory work four or six hours a week on Saturdays, with occasional lectures and recitations, second term. *Text-book:* Fulton's Manual of Fire Assaying. *Prerequisite: Chemistry 1 and 6.*

PROFESSOR STEEL.

GERMAN.

W. M. BRISCOE, *Professor.*
M. C. G. LENTZ, *Associate Professor.*

1. ELEMENTARY GERMAN (3)—M. W. F. 2, 3 and 7.

2. MODERN GERMAN PROSE (3)—M. W. Th. 6, M. W. F. 3.

2a. GERMAN COMPOSITION (2)—This course should be taken by students who take German 2, and is required of those who intend to continue the study of German. T. and Th. 1.

3. STUDY OF WORKS FROM LESSING, SCHILLER AND GOETHE. M. W. F. 1.

4. SPEAKING AND WRITING GERMAN—A course primarily for those students who wish to prepare to teach German. A study of Germany and the Germans. Methods of teaching German will be discussed and practiced. Admission to this course granted after consultation with the instructor.

5. HISTORY OF GERMAN LITERATURE TO 1740—M. T. Th., 7.

6. SCIENTIFIC GERMAN—A course in rapid reading of scientific German. T. Th. 2.

7. GERMAN LYRIC AND BALLAD POETRY—T. Th. 3.

8. MIDDLE HIGH GERMAN—Not given in 1912-1913.

9. THE GERMAN DRAMA OF THE 19TH CENTURY—T. Th. F. 4.

HISTORY AND POLITICAL SCIENCE.

J. H. REYNOLDS, *Professor.**
D. Y. THOMAS, *Associate Professor.*
FARRAR NEWBERRY, *Acting Associate Professor.*

The courses in this department are designed to afford general culture, and in addition are essential to those who are looking to law, journalism, politics, the ministry, or any other public calling. Course 2 is foundation work and should be taken in the Freshman year. Other courses are not open to Freshmen. The completion of the whole of courses designated as "unit courses" is necessary to secure credit; the completion of a half year's work in other courses entitles one to credit.

2. (*a*) MEDIÆVAL HISTORY (*first term*) (3)—This course is designed to give the student a knowledge of the essential contributions of the ancient world to history, of the reorganization of German society upon the basis of Græco-Roman civilization, and the rise of the modern states.

(*b*) MODERN HISTORY (*second term*) (3)—Beginning where course (*a*) leaves off, the class will study the great world movements of modern times, such as the reformation, religious wars, absolutism, the contest for supremacy on the high seas, the French Revolution, and the democratic movements of the Nineteenth Century. English history will also be emphasized, about one period a week being devoted to it. All students seeking a liberal education should take this course. *Text-books:* Robinson's History of Western Europe and his Readings in European History; Cheyney's Short History of England; Richardson's Syllabus. For Freshmen. M. Th. 1; M. F. 2; M. Th. 4; M. F. 6. All sections meet Wednesday, the fifth period. Unit course.

PROFESSOR REYNOLDS.
ASSOCIATE PROFESSOR THOMAS.

*Absent on leave in Europe till April 1.

3. THE UNITED STATES SINCE 1776 (*throughout the year*) (3)—After a brief study of the Confederation and of the formation of the Constitution, the subsequent history of the United States will be treated with special reference to political and constitutional development. Special attention will be given to the growth of political parties, the gradual sectional division of the country over slavery and state's rights, and the results of the Civil War and Reconstruction. Much library work will be required. M. W. F. 4. Unit course. ASSOCIATE PROFESSOR THOMAS.

4. (*a*) AMERICAN STATE GOVERNMENT (*first term*) (2)—A study of the place of the state in our federal system, of the constitutional law of the states; of the structure and workings of American state governments as they exist today, and of some of the practical problems now before the states, such as the initiative and referendum, control of corporations, legislative reference, proportional representation.

(*b*) POLITICAL PARTIES (*second term*) (2)—Organization and workings of political parties. The caucus, the convention, the boss, the primary; methods of state control. Largely a library and lecture course. W. F. 2. PROFESSOR REYNOLDS.

5a. HISTORY OF ENGLAND (*throughout the year*) (3)—A general culture course covering the whole of English history, treating alike the political, the literary, the religious, and the economic activities of the people. The origin and growth of the more important institutions, such as the kingship, parliament, cabinet, courts, and church; the reformation, the literature, the economic changes; the struggle for constitutional government and the colonial system will all receive attention. Primarily for Sophomores. Unit course. PROFESSOR REYNOLDS.

5. (*a*) ENGLAND UNDER THE TUDORS AND THE STUARTS (*first term*) (3)—A study of the political, religious, literary, and economic history of England during these two periods.

(*b*) THE BRITISH EMPIRE (*second term*) (3)—While a brief survey of the general history of England through the eighteenth and nineteenth centuries will be made, the attention of the class will be mainly devoted to a study of England's colonial history and of the forces that have developed the British Empire of today. An analysis of the present imperial policy will be given. A library and lecture course. *Prerequisite: History 2 or Junior standing.* M. T. Th. 2. PROFESSOR REYNOLDS.

6. (*a*) NATIONAL GOVERNMENT (*first term*) (3) A study and comparison of the structure and powers of the national governments of England, United States, France, Germany, and Switzerland. Special emphasis will be given to the place of the federal system in public law. This course will be based on the works of Burgess, Beard, Garner, and the constitutions of the different countries.

(*b*) INTERNATIONAL LAW (*second term*) (3)—A brief sketch of the history of international law, and a study of the principles now considered binding on civilized nations. For Juniors or Seniors who have had at least three hours of college history. *Text-book:* Davis' Elements of International Law. Considerable library work will be required. T. W. F. 3.

ASSOCIATE PROFESSOR THOMAS.

1. (*a*) HISTORY OF GREECE (*first term*) (2)—This course is designed to give a more extensive knowledge of the history and the institutions of the Greeks. A general knowledge of the subject is presumed.

(*b*) HISTORY OF ROME (*second term*) (2)—The explanations made above in regard to the history of Greece apply to this course.

ASSOCIATE PROFESSOR THOMAS.

7. (*a*) FRENCH REVOLUTION AND THE NAPOLEONIC ERA (*first term*) (2)—France on the eve of the Revolution; her political philosophers; causes and events of the Revolution, and the wars of Napoleon.

(*b*) THE NINETEENTH CENTURY (*second term*) (2)—The democratic movement of the century; the development of constitutional government; the unification of Italy and Germany; and the present condition of world politics. Tu. Th. 4.

(*c*) LABORATORY (1)—Throughout the year. Laboratory work two hours a week in contemporary European history. For this purpose a room is equipped with tables, chairs, and with current German, French, and English periodicals, Statesman's Year Book, Annual Register, Who's Who, World's Almanac, atlases, maps, cyclopædias, and general histories. In the laboratory each student will study present-day European events and problems and their historical setting; periodical reports on topics and frequent conferences with instructors. A reading

knowledge of German or French, while not required, will be helpful.

PROFESSOR REYNOLDS.
ASSOCIATE PROFESSOR THOMAS.

9. (*a*) THE UNITED STATES 1763-1783 (*first term*) (2)—The Colonies in their relations to the mother country with special reference to the attempt at imperial taxation. Particular attention will be given to the literature of the period as preparing the colonists for separation. The steps leading to the Declaration of Independence will be traced in detail; also the failure of the Confederation and the formation and adoption of the Constitution.

(*b*) THE CIVIL WAR AND RECONSTRUCTION (*second term*) (2)—The first part of this course will deal mainly with the events leading up to the war; the second with political, economic, and social phases of Reconstruction. *Prerequisite: Six hours of history.* T. Th. 6. ASSOCIATE PROFESSOR THOMAS.

10. RECONSTRUCTION IN ARKANSAS (*Seminar*) (1)—A study from original sources of the history of Reconstruction in typical counties of Arkansas. Students will gather in the summer the data from county records, newspaper files, interviews, etc., and after numerous conferences with the instructor the following year they will prepare papers or monographs.

PROFESSOR REYNOLDS.

MATHEMATICS AND ASTRONOMY.

GEORGE W. DROKE, *Professor.*
B. J. DUNN, *Associate Professor.*
A. M. HARDING, *Associate Professor.*
JOSEPHINE M. DROKE, *Instructor.*

Mathematics.

1a. ALGEBRA, SOLID GEOMETRY, PLANE TRIGONOMETRY—4 hours per week. About twelve weeks are given to each subject, Algebra coming first. *Text-book*: Wentworth's Solid Geometry Revised, Sections 1 and 2. Tu. W. Th. F., periods 1 and 4.

PROFESSOR DROKE.
ASSOCIATE PROFESSOR HARDING.
INSTRUCTOR JOSEPHINE DROKE.

3c. ALGEBRA (*first term*), PLANE TRIGONOMETRY (*second term*) —3 hours per week. M. W. F., period 7. Open to Freshmen who have credit for solid geometry. *Text-book:* Rietz and Crathorne's College Algebra. PROFESSOR DROKE.

1c. ALGEBRA (*first term*), SOLID GEOMETRY (*second term*)— 3 hours per week. Sections 1, 2, 3. M. W. F., periods 3 and 4. Required of Freshmen engineers. *Text-book:* Rietz and Crathorne's College Algebra.

ASSOCIATE PROFESSOR DUNN.
INSTRUCTOR JOSEPHINE DROKE.

2c. PLANE TRIGONOMETRY (*first term*), ANALYTIC GEOMETRY (*second term*)—3 hours per week. Sections 1, 2, 3. Tu. W. Th., periods 1, 3, 4. Required of Freshmen engineers.

ASSOCIATE PROFESSOR DUNN.
ASSOCIATE PROFESSOR HARDING.

4. ANALYTIC GEOMETRY—3 hours per week. Elective for A. B. students of the Sophomore year. M. W. F., period 2. *Text-book:* Fine and Thompson's Coördinate Geometry.

PROFESSOR DROKE.

4a. ALGEBRA AND ANALYTIC GEOMETRY (*continuation of 2c*) —3 hours per week. Sections 1 and 2. M. W. F., periods 2 and 4. Required of Sophomore engineers.

ASSOCIATE PROFESSOR DUNN,
ASSOCIATE PROFESSOR HARDING.

4b. DIFFERENTIAL AND INTEGRAL CALCULUS—2 hours per week. Sections 1 and 2. Tu. Th., period 2. Required of Sophomore engineers. *Text-book:* Townsend and Goodenough's Essentials of Calculus. PROFESSOR DROKE.
ASSOCIATE PROFESSOR HARDING.

5b. ALGEBRA (*continuation of Algebra 1a*)—2 hours per week. Elective for A. B. Sophomores. Tu. Th., period 2.

ASSOCIATE PROFESSOR DUNN.

6. DIFFERENTIAL AND INTEGRAL CALCULUS—3 hours per week. M. W. F., period 3. Elective for A. B. Juniors and Seniors. PROFESSOR DROKE.

6b. ALGEBRA AND CALCULUS—2 hours per week. Tu. Th. Period 2.

ASSOCIATE PROFESSOR HARDING.

The following elective courses are offered, but on account of the limited teaching force not more than two of them may be taken in the same year.

8. SPHERICAL GEOMETRY, PLANE AND SPHERICAL TRIGONOMETRY, THEORY OF EQUATIONS—2 hours per week.

8a. THEORY OF EQUATIONS (*continuation of course 8*)—2 hours per week.

9. (*a*) DIFFERENTIAL EQUATIONS—3 hours per week. First or second term. Murray's Differential Equations.

(*b*) ANALYTIC GEOMETRY OF THREE DIMENSIONS—3 hours per week. First or second term. Books of reference: C. Smith's and Frost's Solid Geometry; Salmon's Geometry of Three Dimensions.

9a. MODERN ANALYTIC GEOMETRY—2 hours per week.

10. THEORETICAL MECHANICS—2 hours per week.

12. ADVANCED CALCULUS—3 hours per week.

15. MODERN PURE GEOMETRY—3 hours per week. First or second term. Books of reference: Godfrey and Siddon's Modern Geometry, and Askwith's Pure Geometry. This course will include the discussion of the theorems of Ceva and Menelaus, Harmonic Section, Pole and Polar, Orthogonal Circles, the Circle of Apollonius, Ptolemy's Theorem, Coaxal Circles, Inversion, Orthogonal Projection, and Cross-Ratio. These topics will be treated in an elementary way.

All those who are preparing to become teachers of mathematics in high schools will find this course very helpful. *Prerequisite: 1c and 2c, or their equivalent.*

PROFESSOR DROKE.

NOTE—Those who make mathematics their major subject must take courses 1*a*, 4, 5*b*, 6, and 8, or their equivalent. Courses 9, 9*a*, 12, and 15 may be taken by graduate or undergraduate students.

Astronomy.

16. DESCRIPTIVE ASTRONOMY—2 hours lectures and recitations, with occasional meetings at night for observation. *Text-book:* Young's Manual of Astronomy.

ASSOCIATE PROFESSOR HARDING.

17. SPHERICAL AND PRACTICAL ASTRONOMY—2 hours. Astronomical coördinates. Parallax. Time. Use of a sextant and transit instrument, determination of latitude, etc.

ASSOCIATE PROFESSOR HARDING.

17a. CELESTIAL MECHANICS—2 hours per week.

PHILOSOPHY AND PEDAGOGY.

W. S. JOHNSON, *Professor.*
ROSE BLAND, *Principal, Training School.*
NELLIE TRAIL, *Critic Teacher.*

The object of the courses offered in this department is (*a*) to afford general culture, and (*b*) to train those who expect to enter professional life, especially law, medicine, ministry, and teaching.

For those contemplating the professions of law, journalism, and business, the following courses are recommended: 7, 8, and 9; Medicine: 7, 8, and 10; Teaching: 1, 3, 4, 5, and 6.

For the required course of study in the normal department, and the conditions under which the certificate of Licentiate of Instruction is granted, see pages 85-87.

Students selecting pedagogy as a major are required to take the following courses: 1 or 8a, 3, 4 or 8b, 5 and 6. The completion of these courses as a part of the work offered for the B. A. degree entitles the student to the Normal Diploma also, under conditions as given on pages 88-90.

1. ELEMENTARY PSYCHOLOGY (*first term*) (3)—This course serves as an introduction to pedagogy. The course though open to all students in the collegiate department, is especially designed for the students in the normal department. The different functions of the mind are studied from the physiological and experimental standpoints. It is intended to make it as concrete as possible—by a study of the nervous system, and by experiments to demonstrate the action and interaction between the mind and the nervous tissue. *Text-book:* Gordy's New Psychology. M. W. F. 1 and M. W. F. 2. PROFESSOR JOHNSON.

3. SCIENCE OF INSTRUCTION (2)—The methods discussed are based on psychology. The broader generalizations of the science of education are studied; and the student learns to apply the principles of psychology to the work of teaching. During the first term the method of the recitation is studied; the special methods, during the second term. *Text-books:* McMurry's Method of the Recitation, and his Special Methods. T. Th. 1, and T. Th. 2. MISS BLAND.

4. HISTORY OF EDUCATION (*second term*) (3)—This course includes the study of the educational systems and methods of ancient, mediæval, and modern nations; lives and theories of

educational reformers; growth of education in the United States and in the State of Arkansas. *Text-books:* Monroe's Brief Course in the History of Education; Arkansas School Law. M. W. F. 1 and M. W. F. 2. PROFESSOR JOHNSON.

5. CHILD STUDY (4)—In this course it is intended to make a practical application of the principles studied in courses 1, 3, 4, and 6a. The characteristics of children as seen in the school-room, at home, and at play, are carefully studied. Topics are assigned and discussed at the general critique held once each week. Daily practice teaching in the training school.

MISSES BLAND AND TRAIL.

6. (*a*) EDUCATIONAL PSYCHOLOGY (*first term*) (2)—This course applies the principles of psychology to the school-room. Special attention is given to such subjects as the sources of interest, the characteristics of imitation, heredity, attention, memory, imagination, emotions, will and character. *Text-book*: Garlic and Dexter's Psychology in the School-room.

(*b*) THE MODERN HIGH SCHOOL (*second term*) (2)—In addition to assigned readings and references to the library, the following topics will be discussed during the term: The origin and development of the high school; its functions; courses of study; organization and management; material equipment; the teacher; the principal; the pupil; the class exercise; government; social life; the high school and the community; present problems.

PROFESSOR JOHNSON.

7. ABNORMAL PSYCHOLOGY (1)—This course is designed to supplement course 8, and to discuss especially the psychological conditions and mental phenomena of sleep, dreams, hypnotism, somnambulism, sanity, insanity, illusion, hallucinations, mind reading, etc. This, as well as course 8, will be especially valuable to those students who expect to study law or medicine. It is intended to throw light on many of the peculiarities of mental life as exhibited in mankind. Lectures, discussion of reports. *No prerequisite (though desirable to be accompanied or preceded by course 1 or 8).* PROFESSOR JOHNSON.

8. (*a*) GENERAL PSYCHOLOGY (*first term*) (3)—This course discusses the general principles of the thought process. The mind is studied from the physiological, experimental, comparative, and introspective points of view. *Text-book:* James' Briefer Course in Psychology.

(*b*) LOGIC (*second term*) (3)—An introductory course in inductive and deductive reasoning. *Text-book:* Creighton's Introductory Logic. M. W. F. 7. *Open to Juniors and Seniors only.* PROFESSOR JOHNSON.

9. ELEMENTS OF ETHICS (2)—The bearing on the standing of the theories of evolution, sociology, biology, economics, and political economy, as applied to real life. *Text-book:* Dewey and Tuft's Ethics.

PHYSICS.

G. E. RIPLEY, *Professor.*
A. J. THOMAS, *Instructor.*

The following courses are given in order to meet the needs of the student of agriculture, of arts, of engineering, and of natural science, as well as for those students who may desire to pursue the subject for teaching or investigation purposes:

1. GENERAL PHYSICS (3)—Two hours a week throughout the year are devoted to recitation work and two hours a week to work in the laboratory. *Required of all engineering students; elective for others who have had or are taking Freshman mathematics.* M. W. 3; T. Th. 3; T. F. 4; M. T. W. Th. 6, 7.

2. GENERAL PHYSICS (3)—A continuation of course 1. Lectures and recitations three hours a week throughout the year. *Required of Sophomores in electrical engineering; elective for others who have had course 1.* Special emphasis is placed upon mechanics, heat, and electricity. M. T. W. 1.

2a. LABORATORY WORK (2)—Four hours a week throughout the year. The work must be taken the same year as course 2. A knowledge of calculus is desired. The work will include measurement of moment of inertia, torsion, center of mass, co-efficient of friction and of elasticity, thermal expansion, conduction, Ohm's law, capacity, high and low potentials, photometry, etc. F. 5, 6, 7, 8.

3. EXPERIMENTAL PHYSICS (4)—Lectures and recitations from lessons assigned in text-book. Will include many demonstrations, experiments, and problems with a systematic development of the important laws and principles of the subject and the application of the same to our every-day life. Three hours a week are devoted to class work and two hours a week to work in the laboratory.

This course is offered for those students who desire to acquire some knowledge of the important principles of physics but do not care to go further in the subject. This course is open to any student of college grade who has had college algebra and geometry.

4. MECHANICS (2 or 4)—Four hours a week throughout the year or four hours a week for first term depending upon the student's course. The theory of mechanics from a physical standpoint is developed and the practical application of the subject is then brought out. *Prerequisite:* Physics 2.

5. HEAT (1½)—Second semester. Five hours a week, mostly laboratory work. *Prerequisite: Course 4.*

6. ELECTRICAL MEASUREMENTS (2)—First semester. In certain cases course 6 may be taken in place of course 5; otherwise it must be preceded by courses 4 and 5. Four hours a week are given to work in the laboratory and two hours a week to recitations and discussions. The theory of electrical measuring instruments and of electrical measurements is discussed in the class work, and in the laboratory the student will calibrate measuring instruments and test the properties of conductors, electrolytes, and dielectrics.

7. LIGHT (2)—Second semester. Four hours' laboratory work and two hours' class work per week. The class work will deal largely with the modern theory of light and a discussion of the recent discoveries in this field. There will be some work in spectroscopy. The laboratory work will include use and study of the photometer, optical bench, imterferometer, optical pyrometer, etc.

Courses 6 and 7 may be taken by students expecting to study medicine, but must be preceded by course 1.

8. MATHEMATICAL PHYSICS (3)—Three hours a week throughout the year. *Prerequisite: Courses 1, 4 and 5, or 6 and 7. A knowledge of calculus is required.*

9 and 9a. This course is arranged for students of chemistry and must be preceded by course 1. This work will deal largely with osmosis, vapor density, diffusion, and electro-chemistry.

10. ACOUSTICS—Second semester. Two recitations a week and four hours' work in the laboratory. This will include a study of wave motions, emphasis being placed upon sonorous and electrical vibrations.

11. THE TEACHING OF PHYSICS—This course is arranged for those students who contemplate teaching physics in the secondary schools.

This work will take up a study of the methods of presenting the subject both in the class-room and in the laboratory. Reports will be made upon the different topics. The various secondary texts and manuals will be discussed and used in making the reports. *Prerequisite: Courses 1, 4, 5, 6, and 7.*

12. RECENT ADVANCES IN PHYSICAL SCIENCE—Lectures and recitations on the electron theory, discharge of electricity through gases, radio-activity, etc.

ROMANCE LANGUAGES.

A. MARINONI, *Professor.*
MARY HARGIS, *Instructor.*

French.

1. ELEMENTARY COURSE (3)—Reading and composition. Pronunciation is carefully taught and oral drill insisted upon. Thieme and Effinger's French Grammar, Douay's Elementary French Reader, and other easy texts. M. W. F. 2; T. W. Th. 7; M. W. F. 6; W. Th. F. 4.

2. FRENCH PROSE AND POETRY (3)—Composition, sight reading, conversation. Cameron's French Composition will be used, and representative works of modern French authors will be read. M. W. F. 3 and M. W. F. 7.

3. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY (3)—The aim of this course is to obtain a general view of the classic period of French literature. The most important literary productions of the century will be read and analyzed in the class room. Considerable outside reading will also be assigned with written reports from time to time. The course is conducted in French. M. W. F. 3.

3a. FRENCH LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES (3)—The first term will be devoted to the study of representative works of the Eighteenth Century. In the second term especial attention will be given to the Romantic Movement in France and works from such writers as Lamartine, Vigny, de Musset, Hugo, and others, will be read. M. W. F. 6.

4. MODERN FRENCH POETRY (1)—The object in this course is a systematic study of the evolution of French poetry from 1850 to our days. New tendencies in poetry, and the reaction against Romanticism as shown in the works of Leconte de Lisle, Verlaine, Baudelaire, Heredia, Prudhomme. The text used in the class room will be *Modern French Lyrics*, by A. Marinoni and Ch. G. Carroll. Reports will be required on collateral reading. Hour to be arranged.

4a. FRENCH DRAMA (1)—The evolution of French drama from the origins to the present time. Lectures, written reports, outside reading. One hour, by appointment.

4b. FRENCH SYNTAX (1)—French syntactical forms will be studied from the historical standpoint. Given in even years—1912, 1914, etc.

4c. ADVANCED FRENCH COMPOSITION (1)—This course is open to all students who have had at least two years of French. One hour, by appointment.

NOTE.—In French the work for the first two years is entirely linguistic, the study of literature being deferred until the third year.

Italian.

1. ELEMENTARY COURSE (3)—Marinoni's Elementary Italian Grammar, Marinoni's Reader. Composition, conversation. Tu. W. Th. 2.

2. ADVANCED COURSE (3)—The first semester will be given to a general survey of the Fifteenth and Sixteenth Centuries, and selections from the works of Machiavelli, Ariosto, Tasso, will be read. The second semester will be devoted to the study of the Divina Commedia. (Inferno; Grandgent's edition; Heath & Co.) M. W. F. 4.

3. DANTE IN ENGLISH (1)—Only Seniors whose major work is in English can enter this course. One hour, by appointment.

Spanish.

1. ELEMENTARY COURSE (3)—Loiseaux's Grammar; Padre Isla's Gil Blas and other easy texts; composition; conversation. M. T. F. 7.

2. MODERN SPANISH (3)—Selections from the best productions of the Nineteenth Century will be read; assigned reading; composition, conversation. M. Tu. F. 7.

NOTE—The Department of Romance Languages receives regularly the folowing periodicals: Revue des Deux Mondes; Revue Hebdomadaire; L'Illustration; L'Opinion; Le Temps; Nuova Antologia; Illustrazione Italiana; Corriere della Sera; Espana Moderna.

CIVIL ENGINEERING.

J. J. KNOCH, *Professor.*
V. P. KNOTT, *Associate Professor.*
P. C. HUNTLY, *Adjunct Professor.*

The design of this department is to furnish a course of theoretical instruction, accompanied by illustrations and as much of engineering practice as can well be taught in schools. This course will give the student a knowledge of the fundamental principles required to enter intelligently upon the various branches of engineering belonging to this profession.

The special technical studies, which are offered in this course, may be grouped under the heads of surveying, applied mechanics, road and railroad engineering, hydraulic engineering, bridge engineering, and sanitary engineering. A general outline of the course is found on page 75.

Instruction—The work in surveying extends over three years. It embraces land surveying, leveling and United States public land surveys during the Sophomore year; topography, railroad reconnoissance and location during the Junior year; triangulation and geodesy during the Senior year. Much time is devoted to practice in the field and drafting room, this work being carried on parallel with the class-room work. Each year a party of engineering students go into camp one week for practice in surveying and locating railway lines.

1. DESCRIPTIVE GEOMETRY (2)—Recitation and practice first term. *Text-book:* Church's Descriptive Geometry. Engineering Hall. Th. 8:30-9:30; M. 1:30-3:20.

PROFESSOR KNOCH.
ADJUNCT PROFESSOR HUNTLY.

1a. DRAWING (2)—Selection and care of instruments. Drawing geometrical figures, conventional representation of materials, copying and tracing working drawings, and drawing from models. Two afternoons throughout the year. Engineering Hall. T. W. 1:30-3:20. ADJUNCT PROFESSOR HUNTLY.

2. SURVEYING (*with* 3) (3)—First, and part of second term. Care, use, and adjustment of instruments, use of chain, tape, compass, transit, solar attachment, level, sextant and plane table; land surveying, leveling, contouring, laws, and instructions relating to surveys of the public domain. *Text-book*: *Raymond's*. Engineering Hall. T. F. 8:30-9:30.
ADJUNCT PROFESSOR HUNTLY.

3. FIELD PRACTICE—Exercises in land, city and topographical surveying. One afternoon throughout the year. Th. 12:40-4:00.
ADJUNCT PROFESSOR HUNTLY.

4. HIGHWAYS (1)—One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. *Text-book:* Spalding's Roads, Streets, and Pavements. Engineering Hall. Th. 8:30-9:25.
ADJUNCT PROFESSOR HUNTLY.

4a. ARCHITECTURAL DRAWING (1)—One hour per week, second term. Elementary course in architecture; drawing plans and elevations of simple structures; analysis of plans. M. 1:30-3:20. ADJUNCT PROFESSOR HUNTLY.

5. RAILROAD ENGINEERING (2)—Two hours per week throughout the year. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railroad location and management. *Text-book:* Searle's Field Engineering and Crandall's Transition Curve and Earthwork Computations, first term; second term, Raymond's Railroad Engineering Part II. Engineering Hall. T. Th. 10:20-11:15. PROFESSOR KNOCH.

6. FIELD PRACTICE (2)—Location of curves, turnouts, and Y's; measurement of embankments and cuts, and computation of volumes. Four hours a week throughout the year. F. 12:40-4:00. PROFESSOR KNOCH.

7. RAILROAD SURVEY—One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey, and location.

8. DRAWING (2)—Lettering titles for maps and drawings Pen and colored topography. Four hours a week throughout the year. Engineering Hall. M. W. 8:30-10:20.
ADJUNCT PROFESSOR HUNTLY.

8a. DRAWING (2)—Lectures and practice two afternoons a week throughout the year. Shades, shadows, and perspective. Topographical and railroad maps from actual surveys; masonry dams, structural details, and working drawings for designs. Engineering Hall. M. T. 1:30-2:30.

ASSOCIATE PROFESSOR KNOTT.

9. MASONRY CONSTRUCTION (2)—Two hours per week, first term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams; cribs and caissons. *Text-book:* Baker's Masonry Construction. Engineering Hall. W. Th. 11:15-12:10. ASSOCIATE PROFESSOR KNOTT.

10. ROOFS AND BRIDGES (3)—Four hours per week, first term; three hours, second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of materials for roof truss and railroad bridge. *Text-books:* Merriman and Jacoby's Roofs and Bridges, Parts I, II, and III. Engineering Hall. M. T. W. F. 9:25-10:20.

PROFESSOR KNOCH.

10a. STRUCTURAL MECHANICS—Five hours per week throughout the year. A course especially designed for students in civil engineering. The theory of stresses and strains, with practical applications to the design of structures. Engineering Hall, M., T. W. Th. F. 8:30-9:25. ASSOCIATE PROFESSOR KNOTT.

11. SANITARY ENGINEERING (2)—Two hours per week, first term. Calculation and special details of construction of sewers; separate and combined systems of sewers; purification of sewage; municipal and domestic sanitation. *Text-book:* Folwell's. Engineering Hall. T. F. 8:30-9:25.

PROFESSOR KNOCH.

12. TECHNICAL DRAWING (2)—Lectures and practice, four hours per week throughout the year. Right and oblique arches; drawings for computation of course 10. Engineering Hall. T. W. 1:30-3:20. PROFESSOR KNOCH.

13. WATERWORKS ENGINEERING (3)—Three hours per week, second term. Study of systems of water supply; collection, purification, and distribution of water; location of waterworks, with details of estimates of cost; turbines and pumping engines. *Text-book:* Folwell's Water Supply Engineering. Engineering Hall. W. Th. 9:25-10:20. PROFESSOR KNOCH.

14. ENGINEERING LABORATORY (2)—Two hours per week, first term. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone, and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs. Engineering Hall. F. 12:40-4:00.
ADJUNCT PROFESSOR HUNTLY.

15. FIELD PRACTICE (2)—Two hours per week, second term. Topographical survey, triangulation, precise leveling, and practical astronomy. Th. 12:40-4:00.
ASSOCIATE PROFESSOR KNOTT.

15a. REINFORCED CONCRETE (2)—Two hours per week, first term. Recitations, lectures, and practical problems on the theory and design of various structures in reinforced concrete.
ASSOCIATE PROFESSOR KNOTT.

16. CONTRACTS AND SPECIFICATIONS (3)—Elective for Seniors in Engineering. Lectures and recitations three times per week. *Text-books:* Johnson's Contracts and Specifications; Wait's Engineering and Architectural Jurisprudence. Engineering Hall. M. T. W. 9:25-10:20. PROFESSOR BROUGH.

17. SURVEYING (3)—Second term. Care, use, and adjustment of instruments; platting field notes. Running grade lines and simple curves for electric railways.

Recitations one hour and field practice two hours per week. Elective for Electrical Engineers. *Prerequisite: Plane Trigonometry.* ASSOCIATE PROFESSOR KNOTT.
ADJUNCT PROFESSOR HUNTLY.

ELECTRICAL ENGINEERING.

W. B. GLADSON, *Professor.*
L. S. OLNEY, *Associate Professor.*
W. B. STELZNER, *Adjunct Professor.*

This course of instruction is intended to afford a good general education, and at the same time to ground the student so thoroughly in the principles of electrical engineering as to furnish a good foundation for the profession.

Theory is amply treated and tested by experiments in well equipped laboratories, thus affording the student a degree of facility in the use of the instruments and machines which is acquired only by continued practice. As a requisite for graduation

each candidate must present an acceptable thesis, embodying the results of special study. The subject of such study must lie within the field of electrical engineering. It must be announced not later than the beginning of the second term of the senior year, and be approved by the professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the library as the property of the University.

1. ELECTRICAL ENGINEERING (3)—Recitations, demonstrations, and laboratory work. A general elementary course in electrical machinery: dynamos, motors, transformers, electric signals, mine haulage and illumination. This course may be elected for one-half year. Required of mining engineering students the first term. Elective in other courses. *Prerequisite*: *Physics 1*. Engineering Hall, second floor. M. Tu. W.

ADJUNCT PROFESSOR STELZNER.

2. FREEHAND AND MECHANICAL DRAWING (2)—Practice four hours a week, first term; freehand drawing from models and machine parts; lettering; line shading; dimensions. Second term: mechanical drawing; care and use of instruments; copying of mechanical drawings; blue printing; scale drawings from models and machine parts; line shading. Engineering Hall, second floor. M. Tu. 6, 7. ASSOCIATE PROFESSOR OLNEY.

2a. DRAWING (2)—Recitations and practice two hours a week throughout the year. Accurate mechanical drawings from electrical machinery; architectural drawings; perspective; shades and shadows; orthographic projections. *Text-books:* Mechanical Drawing by Cross, and Handbook of Perspective by Otto Fuchs. Engineering Hall, second floor. M. T. 6, 7.

ASSOCIATE PROFESSOR OLNEY.

3. ELECTRICAL ENGINEERING DESIGN (2)—Lectures and practice, four hours a week throughout the year. Working drawings of electrical machinery; wiring plans; design of direct current machinery; specifications and estimates. Engineering Hall, first floor. M. Tu. 6, 7.

PROFESSOR GLADSON.
ASSOCIATE PROFESSOR OLNEY.

4. ELECTRICAL ENGINEERING DESIGN (2)—Four hours, first term only. Lectures and drawing. Design of alternate current

machinery; motors, transformers, and generators. *Prerequisite: Course 3.* Engineering Hall, first floor. M. Tu. 6, 7.

PROFESSOR GLADSON.

ASSOCIATE PROFESSOR OLNEY.

4a. PHOTOMETRY OF ELECTRIC LAMPS (2)—Lectures, recitations, and laboratory work. Second term. *Prerequisite: Physics 1 and 2; E. E. 7, 5, and 3.* Engineering Hall, first floor. M. Tu. 6, 7. PROFESSOR GLADSON.

5. ELECTRICAL LABORATORY (2)—One afternoon a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force and resistance; use and calibration of instruments; exploration of magnetic fields; testing of direct current dynamos and motors. Engineering Hall, basement. Th. 5, 8.

ADJUNCT PROFESSOR STELZNER.

6. ELECTRICAL LABORATORY (2)—One afternoon a week throughout the year. A full experimental course in operating and testing direct and alternate current machines; photometry transmission, storage and transformation of electric energy. Special courses given suited to the preparation and object of the student. Engineering Hall, first floor. W. F. 5, 8.

ADJUNCT PROFESSOR STELZNER.

7. DYNAMO-ELECTRIC MACHINERY (3)—Recitations three hours a week throughout the year. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; designs, calculations, construction, testing, and operating. *Text-book:* Thompson's Dynamo-Electric Machinery, Vol. I. Engineering Hall, second floor. M. W. F. 2. *Prerequisite: Physics 1 and 2.* PROFESSOR GLADSON.

8. THEORY OF ALTERNATE CURRENTS (3)—Recitations three times a week, first term. *Text-book:* Dynamo-Electric Machinery, Vol. II, by S. P. Thompson. Engineering Hall, first floor. M. T. W. 1. PROFESSOR GLADSON.

9. POLYPHASE ELECTRIC CURRENTS (3)—Recitations and lectures three times a week, second term. *Text-books:* Thompson's Dynamo-Electric Machinery, Vol. II. *Reference Books:*

Alternate Current Motors, McAlester, and technical journals. Engineering Hall, first floor. M. T. W. 1.

PROFESSOR GLADSON.

10. ELECTRIC RAILWAYS (2)—Recitations and lectures twice a week, second term. *Reference book:* Electric Railway Engineering, by Parshall & Hobart, and International Correspondence School Pamphlets. Engineering Hall, first floor. Th. F. 2. ASSOCIATE PROFESSOR STELZNER.

11. TELEPHONY, TELEGRAPHY, RAILWAY SIGNALS, FIRE ALARMS AND RELATED APPARATUS (2)—Recitations and lectures twice a week throughout the year. *Text-books:* K. B. Miller's American Telephone Practice, and American Telegraphy, by Maver. Engineering Hall, first floor. Th. F. 1. *Prerequisite: Physics 1.* ASSOCIATE PROFESSOR OLNEY.

11a. LABORATORY WORK (1)—With the telephone, telegraph, railway signals and allied apparatus. Engineering Hall, basement. F. 3, 4. ASSOCIATE PROFESSOR OLNEY.

13. POWER STATIONS (2)—Lectures and recitations two hours a week, first term. Selection of machinery for power stations; steam, hydraulic, gas, and electrical. Station construction, operation, and management. Senior elective. M. Th. 2.

PROFESSOR GLADSON.

14. ELECTRIC TRANSMISSION AND DISTRIBUTION (2)—Recitations and lectures two hours a week, second term. A study of the different methods of electrical power distribution for light, railway or stationary power; long distance transmission. Senior elective. Engineering Hall, first floor. M. Tu. 2.

PROFESSOR GLADSON.

15. ALTERNATING CURRENT MOTORS (2)—Lectures and recitations twice a week, second term only. This course must be preceded by courses E. E. 7 and E. E. 8. Engineering Hall, first floor. Elective. PROFESSOR GLADSON.

16. HYDRO-ELECTRIC DEVELOPMENTS (2)—Lectures and recitations two hours per week, second term only. A study of the method of investigating power possibilities of flowing water, collecting data, selecting power sites, power house, transmission lines and machinery. *Prerequisite: Courses in E. E. 6 and E. E. 8.* Elective. PROFESSOR GLADSON.

17. ELECTRICAL ENGINEERING SEMINAR—Students who attend and take part in 75 per cent. of the meetings of the "University Branch of the American Institute of Electrical Engineers," during their Junior and Senior years, and prepare and present an acceptable original paper on some engineering subject will be given one hour's credit.

INSPECTION TRIP—Once each year visits of inspection are made by the Senior class to power houses and large electrical installations; or a week is spent in actual practice work in determining the hydro-electric possibilities of some stream.

18. HISTORY OF ENGINEERING—The early development of engineering, as traced from history and from the remains of ancient works; development of engineering in later periods and its growth into a separate profession; the effect on civilization, general history and economic problems of the several inventions and other improvements which have marked the development of engineering; study of lives of some famous engineers; also the development of the general technical principles of engineering.

ASSOCIATE PROFESSOR STELZNER.

MECHANICAL ENGINEERING.

B. N. WILSON, *Professor of Mechanical Engineering and Superintendent of Mechanic Arts.*

B. MITCHELL, JR., *Associate Professor of Mechanical Engineering and Assistant Superintendent of Mechanic Arts.*

H. W. DEAN, *Instructor in Mechanical Engineering.*

W. E. DUCKWORTH, *Instructor in Mechanical Engineering.*

W. T. CRIPPIN, *Engineer.*

Two courses are offered, a four-year course leading to the degree of B. M. E. (see page 77), and a short course of two years for which a certificate is given (see page 89).

While a major part of a course in mechanical engineering necessarily consists of scientific and technical studies, the four years' course affords a good general education.

The course provides suitable training for young men having in view positions in the management of manufacturing processes, or plants where machinery is used extensively.

Besides the mathematical and scientific studies which constitute the necessary preparation for the study of engineering

branches, instruction is given in mechanics, machine design, theory of steam and gas engines, etc. Special attention is given to the practical application of the truths and theories taught in the class-room, a part of the time being devoted to shop work, drawing, and laboratory practice.

Sufficient instruction is given in the theory and use of electrical machinery to enable the student to use it intelligently.

In the Senior year the student is offered an elective in the branch of mechanical engineering in which he wishes to specialize.

SHOP WORK—M. E. 1 (*a*), Carpentry. A course in carpentry and joinery laid out to meet the requirements of students in agriculture. M. 5, 6, 7. MR. DUCKWORTH.

(*b*) FOUNDING—Green sand moulding; melting and pouring brass and iron; core making. This work is made as practical as possible. M. Tu. W. 1-7.; Th. F. 1-8; Sat. 1-4.
MR. DUCKWORTH.

(*c*) FORGING—Management of fires; drawing and welding; riveting and tempering; case hardening and annealing. M. Tu. W. 1-7; Th. F. 1-8; Sat. 1-4. MR. DEAN.

(*d*) PATTERN MAKING—Practice in making pattern. Care and use of wood working machinery. M. Tu. W. 1-7; Th. F. 1-8; Sat. 1-4. MR. DUCKWORTH.

(*e*) MACHINE SHOP PRACTICE—Exercises in chipping and filing; practical work in turning; planing, drilling; grinding; use of milling machine; erection of machinery. M. Tu. W. 1-7; Th. F. 1-8; Sat. 1-4. MR. DEAN.

(*f*) Advanced work in any of the above courses.
MR. DUCKWORTH.
MR. DEAN.

(*g*) MANUAL TRAINING, ONE OR TWO CREDITS—A beginners course in manual training, suitable for teachers intending to teach manual training in the primary grades, and familiarize themselves with the use of tools. This course is made up of work in paper cutting folding and pasting. Book binding and sloyd. M. Tu. S. 1, 2, 3.
MR. DUCKWORTH.

(*h*) MANUAL TRAINING, ONE OR TWO CREDITS—A continuation of course (*g*) with exercises in wood carving, turning, and elementary cabinet making. M. Tu. Sat. 1, 2, 3. MR. DUCKWORTH.

(*i*) M. E. I, MANUAL TRAINING, ONE OR TWO CREDITS—A course arranged for advanced teachers in wood work. Thin wood construction, thick wood construction joining and cabinet work, wood finishing. M. Tu. Sat. 1, 2, 3. MR. DUCKWORTH.

2. (*a*) MECHANICAL DRAWING (2 or 3)—Lettering; free hand drawing; geometrical drawing; copying machine drawings; working drawings from machine parts; tracing; blue printing. M. Tu. or F. 6-7. ASSOCIATE PROFESSOR MITCHELL.

(*b*) MECHANICAL DRAWING (*first term*) (2)—Perspective and and isometric drawings; intersections; development; detail drawing; blue printing. M. Tu. or F. 6-7.
ASSOCIATE PROFESSOR MITCHELL.

(*c*) ARCHITECTURAL DRAWING (2)—Conventional methods of representing different materials of construction; standard details of buildings; plans; elevations; sections; working drawings; tracing. M. Tu. or F. 6-7. ASSOCIATE PROFESSOR MITCHELL.

3. (*a*) MACHINE DESIGN (3)—Kinematics of machinery; design of gear teeth; link motions, cams, etc. One hour's recitation and six hours' drawing per week. M. 3 and M. Tu. or F. 5, 6, 7. ASSOCIATE PROFESSOR MITCHELL.

(*b*) MACHINE DESIGN (*second term*) (2)—A study of empirical methods of design, and the application of the principles of mechanics to the design of machine elements. Drawing, M. Tu. or F. 6-7. ASSOCIATE PROFESSOR MITCHELL.

4. (*a*) ELEMENTARY MECHANICS—An elementary course in mechanics and hydraulics. Tu. Th. F. 3.
ASSOCIATE PROFESSOR MITCHELL.

(*b*) THEORETICAL MECHANICS (*first term*) (4)—Statics and Dynamics. Mathematical discussions of force, inertia, energy, etc. *Text:* Hancock's Mechanics. M. Tu. W. Th. 1, or M. Tu. W. Th. 2. Required of all Junior engineers. *Prerequisute Math.* 4 (3). ASSOCIATE PROFESSOR MITCHELL.

(*c*) MECHANICS OF MATERIALS (*second term*) (5)—The materials of construction. Timber, stone, iron, steel, cement, brick, etc., are studied. The formulæ for the figuring of strength of beams, columns, shafting, etc., are developed. Numerous applications of the formulæ to practical problems are made. *Text:* Houghton's Mechanics of Materials. M. Tu. W. Th. 1, or M. Tu. W. Th. 2. *Required of all Junior engineers. Prerequisite: M. E. 4 (3) Math. 4 (3)* ASSOCIATE PROFESSOR MITCHELL.

5. (*a*) STEAM ENGINES AND BOILERS (3)—Elementary theory of steam engines and boilers; care and management of same; valve gears. Three hours per week one year. M. Tu. F. 4.
PROFESSOR WILSON.

(*b*) STEAM ENGINES AND BOILERS (*first term*) (3)—Elementary thermodynamics; theoretical heat engines; valves; valve gears; comparison of type of steam engines, boilers, and feed water pumps; use of feed water heater, condensers, etc., discussed. T. Th. 3; F. 1. PROFESSOR WILSON.

(*c*) GAS ENGINES AND PRODUCERS (*second term*) (3)—Development and theory of different types of gas and oil engines discussed. Suction and pressure producers studied. Cost of gas and steam power compared. *Text:* Carpenter's and Deaderichs' Internal Combustion Engines. Tu. Th. 3; F. 1.
PROFESSOR WILSON.

6. (*a*) OPERATION OF POWER PLANT EQUIPMENT (2)—The actual operation of steam, gas, and oil engines, boilers, pumps, condensers, and the repairing of same. Six hours' work per week are required in this course for two hours' credit. Elective for short course engineers and agricultural students. W. 5-7; Sat. 1-3. MR. CRIPPIN.

(*b*) EXPERIMENTAL ENGINEERING (2)—Calibration of Engineering instruments; indicators, steam gauges, planimeters, nozzles, meters, weirs, etc.; tests of materials of construction in tension, torsion, compression and bending; valve setting. *Text-book:* Experimental Engineering, Carpenter. Four hours' laboratory work per week. W. 4, 5, 6, 7, or Th. 5, 6, 7, 8.
ASSOCIATE PROFESSOR MITCHELL.

7. MACHINE DESIGN (4)—Theory of steam and gas engines; problems in steam and gas engines and boiler design. One recitation, six periods of drawing. F. 3. period. *Prerequisite: M. E. 3.* PROFESSOR WILSON.

8. EXPERIMENTAL ENGINEERING (2)—Complete tests of different types of steam engines, boilers, pumps, gas engines, oil engines, turbines, special investigations. F. 5, 6, 7, 8.
PROFESSOR WILSON.

9a. HYDRAULICS (2)—Hydraulics and Hydrostatics, the second term during the Junior year. *Text-book:* Treatise on Hydraulics, Merriman. Two recitations per week. Tu. Th. 4.
PROFESSOR WILSON.

9b. HYDRAULIC MACHINERY (2)—A study of the design, construction, and operation of turbines and pumping machinery. the first term of the Senior year. *Text-book:* Treatise on Hydraulics, Merriman. Two recitations per week. Tu. Th. 4.

PROFESSOR WILSON.

10. METHODS OF ICE-MAKING, COLD STORAGE (2)—Theory of the absorption and compression systems of ice-making; ice-making machinery; cost of making; buildings; insulation of storage rooms. PROFESSOR WILSON.

11. HEATING AND VENTILATION (3)—The theory of heating and ventilation is studied, including the flow of air and products of combustion in pipes and chimneys. The sources of the impurities in the air are thoroughly gone into. The requirements of good ventilation are considered, and the movement of air for ventilating purposes by fans and other means compared.

The different systems of heating by furnaces, steam and hot water are studied from the text, working drawings being made by the students of each system of heating, and the merits of each is fully treated; contracts, specifications, bills of material and cost of the different plants prepared. One recitation and four hours' drawing per week. W. 3, M. Tu. W. 5, 6, 7.

PROFESSOR WILSON.

12. STEAM ENGINEERING (4)—Mechanical engineering of power plants; selections of machinery for equipment of power stations; plans and specifications. One lecture and six hours' drawing per week, either one or two terms. F. 3, M. or Tu. 5, 6, 7. *Prerequisite: M. E. 5.* PROFESSOR WILSON.

13. RAILROAD ENGINEERING (4)—Design and construction of locomotives; repairs for rolling stock; discussion of the problems relating to the mechanical engineering of railroads. Second term. *Prerequisite: M. E. 4 and 5.*

PROFESSOR WILSON.

14. EXPERIMENTAL ENGINEERING (2)—An advanced course in laboratory investigation for students desiring to take up a definite line of experiments related to some line of study in this department. The course of experiments and tests will be arranged to suit the needs of small sections.

PROFESSOR WILSON.

15. COMMERCIAL ENGINEERING—The factors controlling costs, efficiency systems, depreciation of machinery and equipment, inventories and valuations, cost keeping, time systems.

PROFESSOR WILSON.

16. ENGINEERING SOCIETY—The student branch of the American Society of M. E. holds regular meetings. One credit will be given Juniors and Seniors for regular attendance and the presentation of at least two papers per year, on some engineering subject.

One-half credit will be allowed Freshmen and Sophomores, for regular attendance, and the reading of assigned papers.

MILITARY DEPARTMENT.

R. D. CARTER, *Captain, Eighth U. S. Infantry.*

The head of the military department is an officer of the United States Army, detailed by the War Department for duty at the University.

All male students over fifteen years of age, not physically disabled, are required to take the practical course in military science, including infantry drill, target practice, guard duty, and various other exercises. This practical course covers the entire period of the student's stay at the University.

The act of Congress donating public lands for educational purposes requires that institutions which are the beneficiaries of such donations include military science and tactics in their course of instruction.

The system of instruction closely follows that used in the United States Army, but it is not the object of the military department to make soldiers of the students of this University, but through a modified form of military discipline to promote habits of neatness, order, and punctuality.

The cadets are organized into one battalion, composed of field staff, band, and six companies. The officers and the non-commissioned officers are selected from those cadets who are most proficient in their drill and military studies, and most exemplary in their deportment. The captains and the lieutenants are taken from the Senior and the Junior classes, and the sergeants and the corporals from the Sophomore class.

Each cadet is required to supply himself with the following articles of uniform clothing:

One (1) blouse.

One (1) pair trousers.

One (1) cap.

Two (2) pairs of white duck trousers.

Two (2) pairs of white cotton gloves.

Three linen collars.

The contract for supplying the above named articles is let each year by the Board of Trustees to the lowest and best bidder and the goods are delivered to the cadets by the agent of the successful bidder.

The cadet band of thirty pieces constitutes an interesting feature of the military organization. It receives the best instruction possible and takes part in all the military ceremonies.

Competitive drills are held at the close of each college year and prizes awarded for proficiency in this department.

The three students of the Senior class having the highest grade of merit in this department are reported to the Secretary of War. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers on graduation are breveted in the State Guard with the rank held by them in the cadet battalion at the date of their graduation.

The following is prescribed as the minimum course of military instruction, practical and theoretical.

PRACTICAL—Infantry Drill Regulations; Field Service Regulations; Manual of Guard Duty; Firing Regulations for Small Arms.

THEORETICAL—Instruction shall include the portions of the above subjects covered by the practical instruction, and may be supplemented by lectures. Under the authority of the President of the United States the military department is inspected every year by an army officer specially detailed for this purpose. A copy of the report of inspection is furnished the President of the University by the War Department.

DEPARTMENT OF PHYSICAL CULTURE AND ATHLETICS.

HUGO BEZDEK, *Professor.*

The purpose of this department is to build up and maintain a good physical condition of the students and, through athletic contests in the popular college sports, to divert their minds from a too closeted life. Recognizing the fact that vigorous health is the basis for the best results in scholarship, the authorities have made physical exercises of some sort compulsory. The girls' gymnasium contains modern equipment and is directed by a woman instructor. The prevalent systematic instruction is in vogue. Military drill is required of the men unless they are excused for participation in athletics.

The popular sports, such as football, baseball, track, basket ball, and tennis are taught, and have representative teams. Secondary teams in these lines, such as 'Varsity scrubs and class teams, are organized and instructed, so that every one who enjoys these pastimes may receive their full benefit. This branch of the department is fully controlled by the faculty, the object being to foster clean sportsmanship.

THE COLLEGE OF AGRICULTURE

Fayetteville.

JOHN NEWTON TILLMAN, LL. D.,
President.

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,
Dean.

ROBERT ROBSON DINWIDDIE, M. D., V. S.,
Professor of Pathology and Bacteriology.

ERNEST WALKER, B. S. A.,
Professor of Horticulture.

MARTIN NELSON, B. S. A., M. S.,
Professor of Agronomy.

JOSEPH LEE HEWITT, B. S.,
Professor of Plant Pathology.

J. F. STANFORD, V. S.,
Professor of Veterinary Science.

*CARL H. TOURGEE, B. S. A.,
Professor of Dairying.

R. C. THOMPSON, B. S.,
Professor of Agricultural Chemistry.

*PAUL HAYHURST, A. B.,
Professor of Entomology.

CARL CHRISTOPHER, B. S., M. S.,
Professor of Animal Husbandry.

*GEORGE ALBERT COLE, B. S., A. M.,
Superintendent of Extension.

J. MELVIN WILSON, B. S.,
Professor of Extension.

ROBERT M. GOW, D. V. M.,
Adjunct Professor of Veterinary Science.

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*Resigned.

CHARLES V. RUZEK, B. S. A.,
Adjunct Professor of Agronomy.

W. C. LASSETTER, B. S. A.,
Adjunct Professor of Agronomy.

*JAMES YOWELL, B. S. A.,
Assistant in Animal Husbandry.

*H. E. STEVENS, B. S. A.,
Assistant in Plant Pathology.

GEO. G. BECKER, B. S. A.,
Assistant in Entomology.

J. M. BORDERS, B. S. A.,
Assistant in Extension.

H. S. MOBLEY,
Assistant in Extension.

W. T. NETTLESHIP,
Butter Maker.

Instruction in the College of Agriculture is divided into the following departments:

1. Department of Pathology and Bacteriology.
2. Department of Horticulture.
3. Department of Agronomy.
4. Department of Plant Pathology.
5. Department of Veterinary Science.
6. Department of Agricultural Chemistry.
7. Department of Entomology.
8. Department of Animal Husbandry.
9. Department of Extension.

The College of Agriculture, while distinct from the other divisions of the University in its buildings and equipment, is closely correlated in its work.

In addition to the regular classes in the College of Agriculture, the students will be admitted to the library, museum, laboratories, and to all lectures and instruction of the University, and to all other rights and privileges granted to other students.

Three courses in agricultural work are offered. They are:

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*Resigned.

1. THE COLLEGIATE COURSE of four years, leading to the degree Bachelor of Science in Agriculture. It is designed to give the student a broad education in the sciences and arts related to agriculture. The work for the first two years is prescribed, the subjects being so chosen as to offer a good foundation for the more specialized work of the Junior and Senior years. The work in the Junior and Senior years will consist of ten hours in a major subject, six hours in minor subjects, four hours in language and twelve hours of elective work.

This course is described in detail on page 141.

2. A SPECIAL COURSE. This course is practical in its nature, and is made up of work chosen from the longer course with this point in view. *Students will be admitted at the discretion of the Dean.*

3. CORRESPONDENCE COURSE—Open only to farmers of the State of Arkansas. Application blanks and question slips will be supplied upon request. The course will be in accord with some accepted text-book on elementary agriculture. No credit allowed toward a degree.

THE COURSE IN AGRICULTURE.

For requirements for admission see page 41.

The following outline shows, in the work of the first two years, the basis on which specialization in the third and fourth is to rest. At the beginning of the Junior year each student must choose his major subject. The choice of his language subject, and of his minors, together with the details of his major, will then rest with the professor who has in charge the subject he has chosen as his major.

The major is to be chosen in one of the departments of the College of Agriculture, and it shall include a thesis based upon original research made by him, or upon some subject included in his course of study, or an original report upon some work of agricultural investigation. This thesis must be approved by the faculty, and must be handed to the professor in charge of the major subject, not later than April 1 of the Senior year.

The minor subjects shall not be more than two, and shall be allied to the major.

Freshman Year.

FIRST TERM	Hrs.	SECOND TERM	Hrs.
English (1) M. T. Th. 2	3	English (1) M. T. Th. 2	3
Chemistry (1) T. Th. 4, W. 5, 6, 7	3	Chemistry (1) T. Th. 4, W. 5, 6, 7	3
Plant Physiology (11*a*) T. Th. F. 6, 7	3	Plant Physiology (11*b*) T. Th. F. 6, 7	3
Agronomy (1*a*) M. W. F. 3, 4	3	Agronomy (1*b*) M. W. F. 3, 4	3
Animal Husbandry (1*a*) T. Th. S. 1	3	Animal Husbandry (1*b*) T. Th. S. 1	3
Shop Work (1*a*) M. 5, 6, 7	1	Shop Work (1*b*) M. 5, 6, 7	1

Sophomore Year.

FIRST TERM	Hrs.	SECOND TERM	Hrs.
Chemistry (1*a*) T. 2, M. W. 5, 6, 7	3	Chemistry (1*b*) T. Th. 3, T. 5, 6, 7	3
Soils (2*a*) M. W. F. 1	3	Horticulture (1*b*) T. Th. 2, W. 5, 6, 7	3
Soils (3*a*) (Lab.) T. Th. 5, 6, 7	2	Dairying (*lb*) M. W. 1, Th. F. 5, 6, 7	4
Veterinary Science (1) T. Th. S. 1	3	Veterinary Science (1*b*) T. Th. S. 1	3
Animal Husbandry, M. W. F. 2	3	Mycology, M. W. 2, 3, F. 1, 2, 3 4	4
Mechanical Drawing (2*a*) F. 5, 6, 7, 8	2		

JUNIOR YEAR	Hrs.	SENIOR YEAR	Hrs.
Major	5	Major	5
Minor	3	Minor	3
Entomology	1½	Modern Language	4
Agricultural Chemistry	1½	Electioves	5
Electives	5		

The Courses in Detail.

It is provided that any subject offered below but not prescribed in the above outline may be withdrawn unless four or more students enroll for it.

Subjects having the letter (*a*) following the number are offered only in the fall term, those with the letter (*b*) only in the spring term, and those with no such letter extend throughout the year.

PATHOLOGY AND BACTERIOLOGY.

R. R. DINWIDDIE, *Professor.*
C. G. DAVIS, *Assistant.*

1. VETERINARY BACTERIOLOGY—The nature and cause of contagious animal diseases and modes of prevention and control. Lectures and demonstrations on pathogenic bacteria and protozoa, and the larger animal parasites. Two hours, second term. Elective.

2. RURAL HYGIENE—A course of lectures on modern principles of sanitation in reference to the farm, home and rural communities. It includes the location and care of wells, barns, dwellings and outhouses, and the modern methods for the sanitary disposal of waste, all with reference especially to the well known insanitary conditions prevailing in rural communities in the South. Two hours, second term. Elective.

HORTICULTURE.

ERNEST WALKER, *Professor.*

1. (*b*) PROPAGATION OF PLANTS—PRINCIPLES OF PLANT CULTURE—This course is of a wide practical value, dealing with the methods used in the greenhouse and nursery in the multiplication of the various kinds of plants, seedage, cuttings, grafting, budding, etc.; care of young greenhouse and nursery stock. *Required of Sophomores.* T. Th. 2, W. 5, 6, 7.

2. FRUIT GROWING—Commercial orchards; apple, peach, and other tree fruits suited to this State; the home orchard; viticulture; varieties, pruning, fertilization of orchards and vineyards, cultivation, marketing. Three hours, throughout the year; lectures and laboratory. Elective.

3. (*a*) FRUIT GROWING—Small fruits—strawberries, blackberries, raspberries, etc., soils, varieties, fertilization, cultivation marketing.

(*b*) OLERICULTURE—The principles of vegetable growing; the home vegetable garden; market gardening; management of cold frames and hot beds, transplanting, manures, fertilizers, forcing. 3 (*a*) and (*b*), two hours throughout the year. Elective.

4. (*a*) FLORICULTURE—Greenhouse construction and management; heating, ventilation, watering; the principal commercial greenhouse plants, packing and shipping.

(*b*) FORCING-HOUSES AND METHODS—Growing cut-flowers. 4 (*a*) and (*b*), two hours throughout the year. Elective.

5. (*a*) FORESTRY—This subject each year is becoming of increasing interest and importance. Forestry has to do with the rational consumption of forest wealth and provision for future needs. The course forms the basis of a general knowledge of the subject or as an introduction to more extended study. Two hours. Elective.

5. (*b*) LANDSCAPE GARDENING—A study of the principles of the subject with special reference to the selection and arrangement of trees and plants for the ornamentation of home and school grounds. Two hours. Elective.

6. (*a*) SPECIAL WORK AND PRACTICE—Handicraft and technical study for advanced students. The work will be arranged to suit the needs of the student.

(*b*) SPECIAL STUDIES AND REPORTS—To be taken in connection with and as supplementary to the preceding course, 6 (*a*) and (*b*). Two hours throughout the year. Elective.

7. THESIS—Experiment work. Two hours. *Required of Seniors with major in Horticulture.* Hours by arrangement.

8. (*a*) POMOLOGY, SYSTEMATIC AND COMMERCIAL—Description of fruits, classes, harvesting, packing, storing, marketing, exhibiting, scoring. Two hours. Elective.

AGRONOMY.

MARTIN NELSON, *Professor.*
C. V. RUZEK, *Adjunct Professor.*
W. C. LASSETTER, *Adjunct Professor.*

Agronomy is the science of the field, the soil and its crops. The study of the soil is conducted from the standpoint of the fundamental principles of management of the soil for crop production and to afford opportunity for special study in particular fields of the subject. The study presupposes a fair understanding of the general principles of physics, chemistry, and plant physiology.

The study of crops is conducted from the standpoint of the fundamental biological and physiological principles underlying

the growth, adaptation and improvement of plants, and economic and business management of the field and its crop. The study presupposes a general knowledge of the field of botany.

1. (*a*) AGRONOMY—The course comprises a study of crops—corn and small grains, cotton and other fibre crops, grasses, clovers, forage and miscellaneous crops. It consists of a study of types, varieties, strains, quality, market standards, the use of score cards, grading and identification. Stress is placed upon the staple crops. Lecture and laboratory work combined. Continues through both terms. M. W. F. 3, 4. *Required of Freshmen.*

1. (*b*) AGRONOMY—Continuation of 1 (*a*). M. W. F. 3, 4. *Required of Freshmen.*

2. (*a*) SOIL PHYSICS—This course comprises a study of the nature, origin, formation, and classification of soils; soil moistures and the methods of conserving it; movements of soil water; its relation to color, light, and temperature; objects and method of use of farm implements as related to the various soils and crops; cultivation and drainage as affecting soil moisture, temperature, aeration, root development, and the supply of available plant food. Three lecture periods. M. W. F. 1. *Required of Sophomores.*

3. (*a*) SOIL PHYSICS—Laboratory Course—Supplementary to course 2 (*a*). Designed to prepare the student to better understand the nature of soil, the methods of treatment of soil and the effect of these methods upon aeration, texture, temperature, moisture, water holding capacity, and crop production. The work comprises the determination of such constants as specific gravity, pore space, capillarity, organic matter, etc., of the various types of soils; mechanical analysis of soils; soil survey and soil mapping. Two three-hour periods. M. F. 5, 6, 7. *Required of Sophomores.*

4. (*a*) FARM CROPS—This course embraces a thorough study of staple and miscellaneous farm crops; methods of cultivation, seeding, harvesting, storing, and marketing; testing, selecting, and improvement; combating weeds. Five hours. M. T. W. Th. F. 2. *Required of Major students.*

4. (*b*) FARM CROPS—Continuation of 4 (*a*). Five hours. M. T. W. Th. F. 2. *Required of Major students.*

5. SOIL FERTILITY—A study of conditions governing productivity and exhaustion of soils; maintenance of fertility; soil bacteria, organic matter, green manures, farm manures, and commercial fertilizers; effect of crops and fertilization; rotation of crops and treatment of soil; soil building; a permanent agriculture. Three hours. M. W. F. 3, Elective.

5. (*b*) SOIL FERTILITY—Laboratory course in soil chemistry. Supplementary to 5 (*a*). Two periods. Elective.

6. (*b*) FARM DRAINAGE—This course comprises the study of drainage and irrigation relative to the farm; the mapping, planning, and laying of drainage systems and rice farms; field work, including the care, adjustment, and use of instruments used in this work. Recitation and laboratory; three periods per week. 2 (*a*) *prerequisite*. Elective.

7. (*a*) SPECIAL JUDGING—Advanced judging of cotton, corn, rice, and grains. Lectures, laboratory exercises, and assigned reading. For advanced students and graduates. Courses 1, 2, 3 and 4, *prerequisite*. Hours to be arranged. Elective.

8. (*b*) PLANT BREEDING—Principles and methods of plant breeding, selection and improvement as applied to farm crops: Variation, transmission and heridity. Natural and artificial selection, evolution of new types and varieties. Lectures and assigned readings. For advanced students and graduates. Courses 1, 2, 3 and 4, *prerequisite*. Two periods. Hours to be arranged. Elective.

9. (*a*) FARM MANAGEMENT—Choosing and buying the farm. Systems of farming—intensive and extensive, specialized and general; arrangement, organization, and equipment for special systems; administration and cost of production; marketing farm products; records, accounts. For advanced students and graduates. Three hours. M. W. F. 3. Elective.

10. RESEARCH WORK—Individual effort combined with class work. One or both semesters. For advanced students and graduates. Two hours. T. and Th. 3. Elective.

11. THESIS—Special investigation of subjects in the field of agronomy. *Required of students with major in agronomy.* Hours to be arranged.

PLANT PATHOLOGY.

J. LEE HEWITT, *Professor.*
H. E. STEVENS, *Assistant.*

1. (*b*) MYCOLOGY—Morphology of typical fungus forms and the classification of fungi, including a brief consideration of the allied groups of lower plants. Four hours. To be arranged.

2. (*b*) PLANT PATHOLOGY—Mycology and plant physiology are *prerequisite.* The diseases of plants caused by cryptogamic parasites and by unfavorable environment. Especial attention is given to conditions inducing disease and to reaction of the diseased organism. Four hours. Second term.

3. (*b*) DISEASES OF TREES—Mycology is *prerequisite.* The diseases of economically important forest trees, the causes of decay in timber. Three hours. Second term.

4. AGRICULTURAL BACTERIOLOGY—Morphology and physiology of bacteria, cultural and microscopic technique. Classification of bacteria and their replation to agriculture. Three hours.

11. (*a*) ELEMENTARY PLANT HISTOLOGY AND PHYSIOLOGY—Should be preceded by general botany or morphology. A study of plant tissues and organs and their functions from the standpoint of agriculture. Fundamental to work in crops. Three hours. First term. *Required of Freshmen.*

11. (*b*) PLANT PHYSIOLOGY AND ECOLOGY—A continuation of course 11 (*a*). The study of plant growth and reproduction as influenced by environment. This course, like the last, is treated from the economic standpoint, touching such subjects as plant propagation, forcing, etherizing, hybridizing, the principles of plant growth. The laboratory work will be with a large number of living plants under the direct control of the students. Three hours. Second term. *Required of Freshmen.*

12. (*a*) PHYSIOLOGY AND ECOLOGY OF FOREST PLANTS—Plant physiology is *prerequisite.* Study of typical forest societies, including physiological facts of special bearing on forest conditions. Three hours. First term.

13. (*b*) DESCRIPTION AND CLASSIFICATION OF ECONOMIC PLANTS—A brief systematic course dealing with common crop plants and weeds; seed impurities. Two hours. Second term.

14. RESEARCH WORK—Will be assigned to students with adequate preparation. Hours to be arranged, not less than three credit hours.

VETERINARY SCIENCE.

J. F. STANFORD, *Professor.*
R. M. GOW, *Adjunct Professor.*

1. (*a*) VETERINARY SCIENCE—This course comprises a general outline of veterinary anatomy and physiology, diseases of animals and their treatment, and simple surgery. Three hours. T. Th. S. 1. *Required of Sophomores.*

1. (*b*) VETERINARY SCIENCE—This course consists of anatomy and physiology of the domesticated animals; dentition and the determination of age by the teeth; lameness—its causes, prevention, and cure; ventilation and disinfection; contagious diseases and diseased processes; methods of restraint and anesthetics, surgery. T. Th. S. 1. *Required of Sophomores.*

AGRICULTURAL CHEMISTRY.

R. C. THOMPSON, *Professor.*
J. R. TUCKER, *Assistant.*

1. (*b*) AGRICULTURAL CHEMISTRY—A general discussion of chemistry applied to the farm, including the chemistry of plant and animal life. Chem. 1 and 1a, *prerequisite:* Second semester. Two hours. M. W. 1. *Required of Juniors.*

2. AGRICULTURAL CHEMISTRY—This course will consist of lectures and laboratory work on fertilizers, insecticides and fungicides, dairy products, concentrated feeds and feeding stuffs. Any or all of this course is elective with hours to be arranged. Elective.

ENTOMOLOGY.

PAUL HAYHURST, *Professor.*
GEO. G. BECKER, *Instructor.*

1a. ENTOMOLOGY. 1—Lectures and laboratory work on the anotomy, metamorphosis, classification, and habits of insects. Special attention is given to the economic relation of insects to agriculture, methods of control, inspection, machinery, and insecticides, field excursions. One lecture and six actual hours

laboratory per week. Hours to be arranged. Three hours. Required of Juniors. PROFESSOR HAYHURST.
MR. BECKER.

2. ENTOMOLOGY 2—Mostly laboratory work on the anatomy and taxonomy of insects and field work on injurious and beneficial insects with general reading of literature on economic problems. Must be preceded by Entomology 1. Three hours. Elective.

3. ENTOMOLOGY 3—A course in insect morphology. Lectures and laboratory work on gross anatomy, histology, physiology embryology, and neurology. Must by preceded by Entomology 1. Three hours. Elective.

4. TAXONOMY—Mostly laboratory work on the classification of insects. The nature of the work will depend on the preparation of the students. A group for special study will be assigned. Must be preceded by Entomology 1, and Entomology 2 and 3 are desirable as prerequisites. Three hours. Elective.

5. INSECT BIONOMICS—Lectures and demonstrations on variations, adaptations, distribution, dimorphism, mimicry, development of color patterns, ecology and phylogeny of insects. Must be preceded by Entomology 1 and 2. Three hours. Elective.

6. RESEARCH—Work given for the special student. After the student has selected his special problem, he is expected to carry on his studies only under the direction of the head of the department. Prerequisites depend on the nature of the problem. Three hours. Elective.

ANIMAL HUSBANDRY.

CARL CHRISTOPHER, *Professor.*
.....*Assistant.*
.....*Assistant.*
W. L. NETTLESHIP, *Assistant.*

1. (*a*) TYPES AND BREEDS OF FARM ANIMALS—The leading breeds of horses, cattle, sheep, swine, and poultry are studied as to their origin, distribution, adaptability, and leading characteristics. One class period each week is devoted to stock judging. Three hours. T. Th. and S. 1. *Required of Freshmen.*

1. (*b*) FEEDS AND FEEDING—Study of the composition of feeds, digestible nutrients in feeds, compounding of rations for the various classes of farm animals, preparing feeds. Also a

study of the most approved methods of feeding and management of the various classes of farm animals. Three hours. T. Th. and S. 1. *Required of Freshmen.*

2. (*a*) LIVESTOCK BREEDING—The laws of heredity, variation, atavism and correlation are given special attention. Prepotency and fecundity and the influences that effect them are discussed. In-and-in breeding, line breeding, cross breeding, grading, and the formation of breeds are taken up in detail *Required.* M. W. F. 2. *Prequisite:* 1a and 1b.

2. (*b*) PORK PRODUCTION—Study of the most economical methods of growing and finishing pigs, of the bacon and lard type, for market. Advantage of grazing crops in pork production. *Required of students specializing in A. H.*

3. (*a*) BEEF PRODUCTION—A study of the most economical methods of producing beef cattle. Production of baby beef, long and short fed beef. Feeding grain in connection with pasture. *Required of students specializing in A. H.*

3. (*b*) FEEDING, CARE AND MANAGEMENT OF DAIRY CATTLE —A study of modern methods of feeding, caring for and managing dairy cattle. T. Th. and S. 3. Elective.

4. (*a*) DAIRYING—The composition of milk; methods of handling for butter and cheese making; condensories; city supply; milk testing; butter making. Two laboratory and two recitation periods per week. M. W. 1; Th. F. 5, 6, 7. Four hours. *Required.*

4. (*b*) FEEDING, CARE AND MANAGEMENT OF HORSES—Study of the most economical feeds for maintenance, light, medium and heavy work. Feed for stallions, brood mares, and colts and fattening for market. Management of stallions, mares and colts, breaking, training, etc. M. W. and F. 4. *Required of students specializing in A. H.*

5. (*a*) MUTTON AND WOOL PRODUCTION—A thorough study of the most economical feeds, and conditions influencing the production of mutton and wool. T. Th. and S. 4. *Required of students specializing in A. H.*

5. (*b*) ANIMAL NUTRITION—Composition of animal body, and composition and digestibility of foods, the theory and practical economy of rations for growing, fattening, wool production, etc. Elective. Two years in agriculture. Arrange. *Prerequisite.*

6. (*a*) POULTRY—Study of the most economical methods of housing, feeding and management of poultry. Study of breeds, their distribution and adaptability. M. W. F. 6. Elective.

6. (*b*) MANAGEMENT OF PURE BREEDS OF LIVESTOCK—Study of establishing and maintaining stock farms in Arkansas. Pastures lots, barns, stalls, feed boxes, etc. Elective. (Arrange.)

7. (*a*) STOCK JUDGING—In addition to text-books studies, practical exercises will be given on the use of the score card in judging the various types and breeds of farm animals. *Prerequisite.* (2a), (2b), (4a), (4b).

7. (*b*) DAIRY BACTERIOLOGY—Application of the principles of bacteriology in the care of milk; and in butter and cheese making. Two lectures per week. Elective. (Arrange.)

8. PREPARING OF ICE CREAM AND ICES—Eighth semester. Dairy Course and elective Agricultural Courses. A study of the preparation of ice cream, sherbets, and ices made on a private or commercial scale. Both lectures and laboratory. Three hours' credit. One recitation and one four-hour laboratory period. Elective. (Arrange.)

9. CITY MILK SUPPLY—The value of milk as a food; the production and control of market milk; prevention of contamination; pasteurizing; bottling and delivering milk; certified, modified, pasteurized, and standardized milk. Two hours. Elective. (Arrange.)

10. MILK TESTING—A thorough study of the Babcock test for all dairy products; the tests for the acidity of the milk; the case in test; the lactometer and the detection and adulterations. Three hours. Elective. (Arrange.)

11. ADVANCED BUTTER MAKING—The composition of milk and butter, separation of milk by gravity and centrifugal force; pasteurization; the use of different kinds of pure culture; cream ripening; churning; working, printing, packing and marketing butter. Five hours. Elective. (Arrange.)

12. FACTORY MANAGEMENT—Eighth semester. Dairy Course and elective Agricultural Courses. Consists of the location, organization, construction, drainage and ventilation of factories, the treatment of the by-products, and creamery refrigeration, this qualifying a student to superintend or manage a large factory or dairy establishment. It is advisable for students to put on the

laboratory during vacation or when work can be done, during consecutive days. Four hours' credit. Lecture, two hours, and laboratory four hours per week. (Arrange.)

13. SCORING BUTTER AND CHEESE—Lecture and practice in judging butter and cheese. One hour. Elective. (Arrange.)

14. INVESTIGATION AND THESIS—(Subject to be arranged.)

DEPARTMENT OF EXTENSION.

J. M. WILSON, *Professor.*
H. S. MOBLEY, *Assistant.*
J. M. BORDERS, *Assistant.*

The department of extension was organized permanently in 1911 for the purpose of carrying on various lines of work especially among the farmers of the State. Up to the present time the principle lines of work have been Farmers' Institutes, Correspondence Courses, and class work in the college.

FARMERS' INSTITUTES.

This line of work has met with great favor and the demand is fast becoming so great that it is impossible to hold all the meetings that are requested, with the small force that is at our command.

These Institutes are held in various parts of the State remote from the college, where lectures and where possible, demonstrations are given in crop growing, fruit growing, stock raising, dairying, land drainage and other subjects of improtance to the farmers.

Plans are also being perfected to conduct two weeks short courses at the College, and various other places in the State—also to assist in similar courses at the District Agricultural High Schools.

AGRICULTURAL EDUCATION.

This department offers one general course in Agriculture, designed especially for students preparing to teach in the schools of the State. The course consists of lectures and laboratory work; three hours per week—M. W. 3, 6 or 7. Laboratory Tu. 6 and 7. Thr. 6 and 7, Sat. 1 and 2. *Required of all Normal students. Elective for all others.*

CORRESPONDENCE COURSES.

The object of the correspondence course is to afford an easy means by which the student may pursue a systematic course of study at his own home. Experience has clearly shown that there are many people who desire an agricultural education, and who can not, for various reasons, attend college. These courses are designed to meet the wants of such persons and are especially arranged for the farmer, the boys and girls of the farm, the gardener, the fruit grower, the teacher, and, in fact, any person who desires to pursue a course along any line of agriculture.

It is hoped that classes will be organized in the locals of the Farmers' Unions and in other rural organizations. If such classes are organized we hope to be able to visit these classes from time to time and give personal instruction.

HOW THE COURSES WILL BE GIVEN—These courses will be given by means of text-books and pamphlets. The pamphlets will be furnished free and the student will be expected to buy the books.

METHOD OF INSTRUCTION—Upon request an application blank is forwarded to any address. The name of the applicant is registered for course upon the receipt of the application, and literature and necessary instructions will be sent. When the text-book is received, the first lesson is studied and the questions on that lesson answered without referring to the book, and mailed to the instructor who will read and correct any error in the answer and then return to the student for correction. After further study the answers are prepared the second time and the instructor will make the final changes and return, thus completing the first lesson. In no case will the second list of questions be sent before the first list is returned.

COST—The instruction is entirely free. Each student will be required to provide a text-book and pay postage to and from the University. The books will be furnished to all students of this course at a reduced price direct from the publishers. The books are by the best authorities on the respective subjects and will make a good addition to the library that every farmer should have in his home.

CORRESPONDENCE COURSES.

Outline of Courses and Books Used.

COURSE I. ELEMENTARY AGRICULTURE—This course is intended to prepare teachers for examination for certificates and fit them to give instruction effectively in nature study and agriculture in the public schools of the State. Elements of Agriculture, by Warren. Price $1.25.

*COURSE II—Soils and How to Treat Them. Brook's Agriculture, Vol. 1. Price $1.25.

*COURSE III—Manures and Fertilizers. Brook's Agriculture, Vol. 2. Price $1.25.

COURSE IV—Farm Accounts. Bexall $2.50.

*COURSE V—Animal Husbandry. Brook's Agriculture, Vol. 3. Price $1.25.

COURSE VI—Field Crops. Southern Field Crops—Duggar. Price $1.75 each.

COURSE VII—Fruit Growing, Principles of, by Bailey. Price $1.50.

COURSE VIII—Vegetable Gardening, Principles of, by Bailey. Price $1.50.

COURSE IX—Home Floriculture, by E. E. Rexford. Price $1.00.

COURSE X—Dairying, Dairy Cattle and Milk Production. Eckles. $1.50.

*The three books by Brooks may be obtained, by ordering at the same time, for $3.50.

AGRICULTURAL EXPERIMENT STATION.

Fayetteville.

JOHN NEWTON TILLMAN, LL. D.,
President.

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,
Director.

ROBERT ROBSON DINWIDDIE, M. D., V. S.,
Pathologist and Bacteriologist.

ERNEST WALKER, B. S. A.,
Horticulturist.

MARTIN NELSON, B. S. A., M. S.,
Agronomist.

JOSEPH LEE HEWITT, B. S.,
Plant Pathologist.

J. F. STANFORD, V. S.,
Veterinarian.

*CARL H. TOURGEE, B. S. A.,
Dairyman.

R. C. THOMPSON, B. S.,
Chemist.

*PAUL HAYHURST, A. B.,
Assistant Entomologist.

CARL CHRISTOPHER, B. S., M. S.,
Animal Husbandmen.

R. M. GOW, D. V. M.,
Assistant Veterinarian.

CHARLES V. RUZEK, B. S. A.,
Assistant Agronomist.

W. C. LASSETTER, B. S. A.,
Assistant Agronomist.

*H. E. STEVENS, B. S. A., M. S.,
Assistant Plant Pathologist.

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*Resigned.

GEO. G. BECKER, B. S. A.,
Assistant Entomologist.

*JAMES YOWELL, B. S. A.,
Assistant Animal Husbandman.

J. R. TUCKER, B. S. A.,
Assistant Chemist.

W. L. NETTLESHIP
Butter Maker.

L. L. WOOTTON, A. B.,
Executive Clerk.

THE OFFICE OF THE DIRECTOR OF THE EXPERIMENT STATION is in the new Agricultural Building, a brick structure of two stories and a basement. It has a well-lighted laboratory room in the basement, two large lecture rooms, the office of the Entomologist, and the soil laboratory on the first floor, and the office of the director, the agronomist, the class-room and laboratory of field crops, and the library on the second floor. It is a well-arranged and attractive building.

THE DEPARTMENT OF BACTERIOLOGY AND ANIMAL PATHOLOGY has its office and laboratory in the Old Experiment Station Building. The department conducts thorough investigation and research relative to cause and character of animal diseases and means of combating them.

THE DEPARTMENT OF HORTICULTURE has its offices in the Experiment Station Building. It has a greenhouse, in which forcing experiments and other experiments in plant propagation are carried on. The orchards and grounds in charge of this department contain many varieties of apples, pears, plums, cherries, and small fruits, which serve as material for experiments with varieties, methods of culture, pruning and spraying.

THE DEPARTMENT OF AGRONOMY has its office on the second floor of the Agricultural Building. This department carries on investigations with farm crops, testing and breeding new and pure varieties of cotton, corn, grains, grasses for hay, pasture and cover crops, and other agricultural products. It also carries on experiments in soil fertility and the management of soils for

*Resigned.

different crops. The work of this department is conducted on the station farm and at the substations. A special feature is the work with cotton and corn at the substations of the southern part of the State.

THE DEPARTMENT OF PLANT PATHOLOGY has its office and laboratory in the Experiment Station Building. This department carries on work of investigation of bacterial, fungus, and all plant diseases with reference to their nature, cause of development, and means of combating and eradicating them. The department is equipped with excellent apparatus for carrying on its investigations.

THE DEPARTMENT OF VETERINARY SCIENCE is located in the Experiment Station Building. State inspection for contagious diseases of animals and the eradication of cattle tick is supervised by this department, and the best means of checking the spread of outbreaks of such diseases and stamping them out.

THE DEPARTMENT OF CHEMISTRY is located in the Experiment Station Building. Its laboratories are fitted with the most improved modern apparatus. This department carries on investigations along the lines of animal and plant life and soil chemistry.

THE DEPARTMENT OF ENTOMOLOGY has its office and laboratories on the first floor of the Agricultural Building. Investigations are conducted by this department in life histories of insects injurious to agriculture and horticulture, and methods of exterminating such insects. Orchard nursery inspection is a feature of the work.

THE DEPARTMENT OF ANIMAL HUSBANDRY is located in the Dairy Building. This department carries on investigations in feeding, breeding, and care of farm animals, including poultry. Its special feature is a well-selected lot of hogs, representing the various breeds, on which various feeding and breeding tests are made. In connection with this department is a dairy located in a three-story stone building equipped with the most improved dairy machinery and well equipped laboratories. The department conducts a model dairy on an economic basis.

THE CONSERVATORY OF MUSIC AND ART

Fayetteville.

JOHN NEWTON TILLMAN, LL. D.,
President.

HENRY DOUGHTY TOVEY, DIRECTOR,
Piano, Organ, Theory.

MARY CUMMINGS BATEMAN,
Voice.

.....

Violin.

MABEL BELL,
Piano.

LOUISE WILLIAMS,
Piano.

EUTHA HARRIS,
Assistant in Voice.

BLANCHE HOYT,
Accompanist.

W. EDWIN DOUGLASS,
Secretary.

WILLIE VANDEVENTER-CROCKETT,
Exyression and Physical Education.

ELIZABETH GALBRAITH,
Art.

EVELYN METZGER,
Assistant in Art.

KATISUE MOORE,
Assistant in Physical Education.

PURPOSE.

The fundamental idea of the management has been to make the Conservatory of Music and Art complete and thorough in every respect, and to advance the pupils rapidly, yet carefully. In other words, the standard of efficiency must be so high that a certificate of study and ability granted here will possess a value recognized far and wide, and that pupils will choose to study here in preference to going to the great cities.

It has placed true artistic merit above other considerations. The courses are planned on broad lines, with a view to fitting the pupils for careers as artistic concert performers and teachers.

TUITION AND OTHER FEES.

The tuition fees are based upon a term of eighteen weeks, except where otherwise stated. Tuition must be paid at the beginning of the term and receipt presented before taking lessons. A higher rate of tuition will be charged when not paid in advance and when the pupil receives instruction for part of a term only.

Music.

Piano	$22 50
Voice, Violin	22 50
Harmony (in class)	5 00
Musical History (in class)	5 00
Organ practice (per hour)	20
Piano one-half time	12.50
Use of piano for practice, one hour daily:	
First hour	2 50
Each additional hour	1 25

A fee of $1.50 is charged each pupil. Upon payment of this fee the pupil will receive a ticket which will admit to not less than two Artists' Recitals given by visiting artists during the year.

A fee of $5.00 will be charged for diplomas.

A fee of $1.00 will be charged for certificates.

Elocution.

Private lessons (per term)	$22 50
Private lessons (per month)	6 00

Class lessons free to University students.

Art.

Academic class by term	$22 50
By month in advance	6 00

A fee of $2.00 is required of all Normal students.

Physical Culture.

The regular classes in physical culture are free to University students.

RULES AND REGULATIONS.

All arrangements must be made at the director's office (University Hall, Room 26). The tuition is paid strictly in advance. If it is paid later, a higher rate is charged.

Pupils may enter at any time, but must continue their study until the end of the term.

Pupils wishing to take the regular advanced courses for a certificate or diploma must enter the department not later than the opening of the second term and continue without interruption until the close of the school year.

Lessons lost in consequence of the absence of the pupil will not be made good by the University, except in case of protracted illness, when due notice in writing has been given to the director.

All lessons lost in consequence of the absence of the instructor will be made good.

No pupil is allowed to miss lessons without sufficient cause.

Upon leaving, each pupil may receive a testimonial in which the time spent at the institution, diligence in study, and progress will be faithfully stated.

Reports showing attendance and improvement are issued every month.

Pupils are not allowed to take part in any public entertainment without the knowledge and consent of the director.

No money will be refunded on class lessons.

No reduction will be made except in cases of long and protracted illness of the student herself, when the loss will be equally shared with the patron. There will be no reduction for time lost at Christmas, nor during the first four or last six weeks of the term.

Applicants for diplomas and certificates must have one year's study on some other instrument.

Applicants for certificates and diplomas will be expected to attend the series of lectures and concerts given by the director in his studio.

For further information address the director.

Write to the director for the Department of Music and Fine Arts Bulletin.

From *Lyceumite and Talent*, Chicago, Ill.:

"One of the handsomest booklets that has come to our attention lately is that of the University of Arkansas Conservatory of Fine Arts. The front cover design was designed by Jessie Lee, one of the students of the University, we believe. This booklet is printed on fine Strathmore stock, deckle-edge, and the illustrations tipped-in in a very artistic manner."

SPECIAL ADVANTAGES OF CONSERVATORY INSTRUCTION.

Aside from the opportunity of instruction by teachers of recognized ability, the advantages of conservatory over private instruction are so manifest that we deem it hardly necessary to enumerate the many points in its favor.

It is almost impossible for the private teacher to give the required attention to the different theoretical branches, such as harmony, counterpoint, composition, ear training, etc., which are absolutely essential to a thorough musical training; at the same time, the lectures on musical history, the public recitals, as well as the close association with a large number of earnest students, create a certain musical atmosphere which is a great aid and stimulus to an increased effort on the part of the pupils. Students are required to attend lessons regularly; teachers have no business matters to occupy their time, and can concentrate their full attention on the musical education of their pupils.

RECITALS.

Especial attention is called to the recitals of both pupils and faculty, of which a number are given each year, and which have won the reputation for artistic excellence. The advantage derived from these can not be overestimated.

At the pupils' recitals, all pupils are privileged and expected to appear as their talents and advancement may warrant. Not

only does this offer them a greater incentive to put forth their best efforts, but it helps them to overcome the nervousness which often mars the performance of students who have not the opportunity of performing frequently before an audience. The recitals given by the members of the faculty have attracted especial attention, and, needless to say, are a further aid to pupils.

ARTIST RECITALS.

In addition to the recitals given by members of the faculty and pupils, the following famous artists have appeared during the season: Mary Wood Chase, pianist (two recitals); Bertha Kunz Baker, reader (six recitals); Ernest Gamble, Ernest Bayne Manning, pianist; Permelia Allen, violinist, and Charles Washburn, baritone.

ORCHESTRA.

Students of the violin and other orchestral instruments will, as soon as possible, be admitted to membership in the University Orchestra, which takes part in concerts. This practice is a decided advantage, as well as a source of pleasure to the student. Orchestral and chorus practice is free to students of the University.

During the season 1911-12 the University Orchestra of 30 pieces gave four successful concerts.

PIANO.

MR. TOVEY, MISS BELL, MISS WILLIAMS.

COURSE OF INSTRUCTION—It has not been deemed advisable to adopt any set of studies to be used arbitrarily, but rather to select a course to suit the needs of the individual pupil. A general outline of the plan of study will be given. Exercises without notes are used for the purpose of acquiring control over positions and motions, firmness, pliability, and elasticity. The aim is to develop the student's power of musical conception, to gain control over all technical resources; and finally, to adapt these resources to artistic ends.

PREPARATORY GRADE—National Graded Course Books I and II; simple exercises for wrist development, major scales, broken chords and arpeggios. Sonatinas by Diabelli, Clementi, Kuhlau, Lichner; studies from Koehler, Biehl, Loeschorn, Czerny, Gurlitt;

salon pieces; preparatory octave work. Special care will be taken in this elementary instruction, as herein lies the foundation of the future pianist.

Pupils passing from the Preparatory to the Intermediate Grade must first pass a written examination in the rudiments of music and be able to play the major scales at the metronome mark 120, 4 notes to a beat.

INTERMEDIATE GRADE—Selected technics from Tausig, Krauss, Heller, Loeschorn, Op. 66; Czerny, Op. 299; sonatas by Mozart, Haydn, Beethoven, Mendelssohn's songs without words; Smith's and Low's Octave Studies; duets for piano and piano and violin; Bach's Little Preludes and Fugues.

In passing from the Imtermediate to the Advanced Grade, pupils must be able to play major and minor scales, similar and contrary motion at 144—4 notes to a beat. Arpeggios, major and minor, at 120—4 notes to the beat; octaves at 80—4 notes to the beat.

ADVANCED GRADE—Extended scales in various accents; diminished and dominant seventh, arpeggios; Etudes from Czerny, Op. 740; Heller, Op. 45; Cramer; Clementi Gradus ad Parnassum; Kullak Octave Studies; Bach Suites, Preludes and Fugues; Chopin, Op. 10 and 25; Valses, Nocturnes, Polonaises, Preludes; Beethoven Sonatas; pieces by Mendelssohn, Schumann, Schubert, Liszt, Grieg, MacDowell, and other composers, classic and modern.

Pupils of advanced grade who have obtained the required proficiency may be considered candidates for the diploma granted by the department, and will be ranked as Seniors.

Piano Practice.

Pupils can arrange at a very moderate expense to do their daily practicing at the University, in case this should prove desirable.

PIPE ORGAN.

MR. TOVEY.

The aim of this department is to fit pupils for holding church positions. To any one expecting to make music a profession, the knowledge of organ playing will be found especially helpful.

The preliminary organ work is based on Ritter's Organ School and Thayer's Pedal Studies. Then follow Buck's Study in Pedal Phrasing, Bach's Little Preludes and Fugues, and selections from the best composers for organ, such as Guilmant, Lemare, Tours, Hollins, Rheinberger, and others.

Mr. Tovey is a colleague of the American Guild of Organists.

VIOLIN.

MISS BELL.

The violin is by many considered the most difficult of instruments, and requires careful and conscientious study. Much depends on the beginning. Often a pupil begins to study with an inexperienced teacher, or one who does not concentrate his attention on this difficult instrument, and consequently falls into bad habits of position, bowing, or technique, that make advancement difficult, and are, in many cases, almost impossible to overcome. The pupil is taken from the beginning and carefully brought through the most difficult phases of the violin. In addition to his exercises, he is, as soon as possible, given pieces within his capacity.

The course of study includes the following:

FIRST AND SECOND GRADES—Studies by Dancla and Dont.

THIRD AND FOURTH GRADES—Studies by Kayser, Kreutzer, and Schradick.

FIFTH AND SIXTH GRADES—Kreutzer, Fiorillo, and Rode.

VOICE.

MRS. BATEMAN, *Head of the Department.*
MISS EUTHA HARRIS, *Assistant.*

In this branch special stress is laid on the control of the breath, accuracy of tone, and distinct articulation; next, the development of mind, body, and voice, coöperately. There is study of intervals, scale building and sight reading. As early as practicable the student is trained in phrasing. The exercises used are those best adapted to the needs of the pupil. Songs of the best American, English, German, French, and Italian composers are used according to the progress of the pupil. There is study of opera and oratorio.

The purpose of the instruction in this department is the correct production of tone and the building and development of the voice according to the old Italian method as used by the greatest artists of olden and modern times. The course includes studies in sustained singing and agility, explanations of the mechanism of the voice as far as is necessary, correct breathing and position in singing, chest development.

The method is such as to develop and strengthen the voice, the aim being beauty and strength of tone, then facility of execution. Special attention is paid to the particular needs of each individual with exercises and studies carefully selected according to the requirements of each voice.

LIST OF VOCAL MUSIC USED.

PREPARATORY GRADES—

Marchesi's Individual Exercises.
Panofka's Vocalises; Op. 85.
Studies for sight reading and easy songs.

INTERMEDIATE GRADES—

Concone, Op. 12.
Concone's Lessons, Op. 17, and third and fourth grade songs, including oratorio.
Marchesi's Individual Exercises.
Panofka's Vocalises, Op. 81.
Sieber's Vocalises, Op. 94.

ADVANCED GRADES—

Lamperti's Studies in Bravura.
Oratorio and operatic arias and difficult songs in English, French, German, and Italian.

HARMONY (Four Terms).

MR. TOVEY.

FIRST TERM—Keys, scales, and signatures; intervals; formation of trial; chord connection; simple part writing; chords of the seventh and their inversions; altered and augmented chords.

SECOND TERM—Modulation.

THIRD TERM—Modulation continued; suspensions; passing chords; unharmonic notes; organ point; harmonizing melodies.

FOURTH TERM—Keyboard work; playing from figured basses; double chants, and chorals. *Text-books*: Stephen A. Emery's Harmony; Kreb's Manual of Modulation.

SIGHT READING.

Due prominence is given to the training in sight reading. Playing from memory is cultivated. Much attention is given to duo and quartette playing, and ensemble work. The opportunity of hearing good music is earnestly coveted for our pupils.

TEACHERS' COURSE.

MR. TOVEY.

Those desiring to become teachers will be given special preparation when they are sufficiently advanced in their branches.

MUSICAL HISTORY (Two Terms).

MISS BELL.

FIRST TERM—General history, development and influence of music among ancient peoples. Early Christian music. Polyphonic music. Rise of dramatic and instrumental music. Development of the different musical instruments.

SECOND TERM—Development of the opera and the oratorio. The romanticists. Modern music and musicians. *Text-books:* W. S. B. Matthew's History of Music, Upton's Standard Operas.

COURSE IN ACCOMPANIMENT.

Mr. Tovey also offers a course in post-graduate work and a course in accompaniment.

In connection with the study of opera, the Victor Talking Machine is used. Concerts are given twice a month, each program being confined to an opera. The story of the opera is told, and the records of the world's greatest singers are played.

CERTIFICATES.

In replying to the many inquiries regarding the period of study required for graduation, it must be said that it is difficult to answer this question, as all depends upon the ability and appli-

cation of the student. Some will accomplish in one year what it takes others two or three times as long to complete. The term varies from four to six years. A graduate must be able to give acceptably a recital in the chosen branch, besides passing examinations in Harmony and in History of Music. Diplomas are conferred upon graduates. As the standard set in this department is that required by the best conservatories of the country, a certificate obtained under these conditions has a meaning. A fee of five dollars is charged for the diploma granted by the Department of Music of the University of Arkansas.

THE REQUIREMENTS FOR A DIPLOMA IN THE DEPARTMENT OF MUSIC are such as are outlined for the course in Music, English, Modern Languages, History, or Economics. No definite number of hours in music are required, but the applicant will be entitled to a diploma whenever the director is satisfied that the applicant possesses sufficient knowledge, technique, and ability, and has completed the theoretical course, regardless of the time required for its completion.

The course as required is as follows:

Two years' College English.

Two years' Modern Language.

One year's History 2, or Economics 1 (optional).

One year's study of some other instrument.

Two years' Harmony.

One year's History of Music.

The entrance requirements for English, Modern Language, History, and Economics are the same as for the same studies in any other course.

Entrance requirements to the Music Course for pupils desiring to be classed as Freshmen, and working toward graduation from the department, are as follows:

Fourteen units.

Required English 3 units (admitting to English 1).

History 1 unit (admitting to History 2).

Elective 10 units including Music. The number of credits to be given for Music determined by the director.

THE REQUIREMENTS FOR A TEACHER'S CERTIFICATE ARE:

One year's History of Music.

Two years' Harmony.

The ability to play or sing, and to give a recital.

One year's study of some other instrument.

There are no entrance requirements for pupils who wish to take special music.

Only in exceptional cases will a student be allowed to graduate after but one year in the Conservatory of Music of the University of Arkansas, and that only when the previous training has been of the best and the pupil shows natural ability of high order.

Only pupils receiving diplomas will be classed as Seniors in the Department of Music and Art.

The enrollment from September, 1911, to February 17, 1912, —468.

SOME PROGRAMS GIVEN BY THE DEPARTMENT.

PROGRAM

Concerto in C minor ..... *Sinding*
Andante

Miss Blake
(Mr. Tovey at second piano)

Elizabeth's Entrance (Tannheuser) ..... *Wagner*
Mrs. Bateman

Court Scene (Merchant of Venice) ..... *Shakespeare*
Mrs. White

Introduction and Rondo Capricioso ..... *Saint-Saens*
Mr. DePue

Concerto in G minor ..... *Saint-Saens*
Andante sostenuto
Allegro scherzando
Presto

Mr. Tovey
(Orchestral parts on second piano played by Miss Wood)

The Young King ..... *Oscar Wilde*
Mrs. Vandeventer-Crockett

The Minstrel ..... *Hildach*
Mrs. Bateman
(Violin obligato played by Mr. DePue)

Gypsy Airs ..... *Sarasate*
Mr. DePue

RECITAL

GIVEN BY

HENRY DOUGHTY TOVEY

ASSISTED BY

MARY CUMMINS BATEMAN, Soprano
WILLIAM EDWIN DOUGLASS, Clarinetist
DeWITT DePEW Violinist

THURSDAY, DECEMBER 14, 1911, 3:30 P. M.

PROGRAM

Sonata in G minor ..... *Schumann*
Mr. Tovey

Chanson d' Amour (violin obligato) ..... *Hollman*
Mrs. Bateman

Polonaise from "Mignon" ..... *Thomas*
Mr. Douglass

Three Lyric Pieces ..... *Grieg*
Scherzo
Peasant's Song
Elegy

Scherzo from E flat minor Sonata ..... *Chopin*
Mr. Tovey

The Butterfly ..... *Hubay*
Polonaise ..... *Mylnarski*
Mr. DePue

Fancy ..... *Samuel Bollinger*
Two American Indian Songs ..... *Cadman*
From the Land of the Skyblue Water
The Moon Drops Low
Mrs. Bateman

RECITAL

GIVEN BY

HENRY DOUGHTY TOVEY, Pianist
DeWITT DePUE, Violinist
EDWIN CLAIR TOVEY, Baritone

FRIDAY, DECEMBER 9, AT 3:30 P. M.

PROGRAM

Sonata in G minor ..... *Schumann*
Sehr rasch wie moglich
Andante
Scherzo
Mr. Tovey

Requiem ..... *Homer*
Since We Parted ..... *Allitsen*
Love Is a Bubble ..... *Allitsen*
Mr. Edwin Clair Tovey

Faust, Fantasie ..... *d'Alard*
Mr. DePue

Sacred and Profane Dances ..... *Debussy*
Arabesques on the Blue Danube Waltzes ..... *Strauss-Schulz-Evler*
Mr. Tovey

Song of Faith ..... *Chaminade*
A Love Note ..... *Tovey*
'Twas In A Land ..... *Chaminade*
Mr. Edwin Clair Tovey

Mazurka ..... *Musin*
Souvenir ..... *Drdla*
Mr. DePue

TWO-PIANO RECITAL

GIVEN BY THE PUPILS OF

MR. HENRY DOUGHTY TOVEY

PROGRAM

Shepherds and Shepherdesses ..... *Godard*
Helen Adams

Duo Symphonique (for two pianos) ..... *Godard*
Allegro Motlo
Moderati quasi Andante
Mrs. O. D. Wannamaker

Song—Carmena ..... *Wilson*
Genevieve Mock

Morning (for two pianos) ..... *Chaminade*
Emil Seidel

Evening (for two pianos) ..... *Chaminade*
La Sevillane (for two pianos) ..... *Chaminade*
Blanche Hoyt

Violin—Polish Dance ..... *Wieniawski*
Alice Dodge

Pas Des Cymbals (for two pianos) ..... *Chaminade*
Josephine Williams

Song—My Heart Sings ..... *Chaminade*
Mrs. Ernest Hall

Concerto in A minor ..... *Grieg*
First Movement
Genevieve Mock

Mr. Tovey at the second piano — Bush & Gerts piano used

"The two-piano program given by the pupils of Henry Doughty Tovey are worthy of Berlin, Paris, or New York.—MUSICAL COURIER, New York, 1909.

GRADUATES IN JUNE, 1911

Diplomas in Piano.

Helen Adams, Kansas City; Alice Collins, DeQueen; Virginia Hall, Fayetteville; Gertrude Watson, McAlester, Okla.

Diploma in Organ.

Mabel Bell, Fayetteville.

Certificate in Piano.

Jennie Lewis, Prescott; Evelyn McRae, Hope.

Certificate in Voice.

Annice Castleberry, Little Rock; Alice Hobbs, Rogers.

EXPRESSION AND PHYSICAL EDUCATION.

The courses in Expression and Physical Education are designed to afford a means of personal culture, for the development of an Efficient Personality; and in addition are essential to those who expect to teach Literary Interpretation, Plain Reading, Oratory and Artistic Rendering and to those who expect to become Readers and Speakers.

It is to be regretted that a department of this character can not give in brief form an outline of its studies, as is the practice of other departments. But there exists a misunderstanding as to the ends and aims of the study of oral language. Speech, both as a means to and evidence of personal culture, should be considered. Even the elementary steps in education, getting the mere thought from a text, demands special training; but of still greater moment is the spirit or emotion. The study of oral English is not an accomplishment for semi-occasional use, but an essential in education. The controlling influence in good English is good tone production. Right speaking depends upon right thinking, and a certain amount of cultivation in its technique. The agents of expression can be improved by technical drill, but the best results come from clear thinking, mental drill and quickened imagination.

COURSE IN EXPRESSION.

WILLIE VANDEVENTER-CROCKETT, *Instructor.*

Ia. Public School Teachers' Course in Reading and Methods of Teaching It.

The growing appreciation of the educative value of reading aloud in the public school curriculum has brought a demand for courses especially adapted to the needs of the public school teacher. This course aims: (1) To help the teacher to improve his own reading. (2) To assist the teacher to teach reading. (3) To lead him to thoroughly understand how thought and feeling are expressed by explaining the

psychology of expression. (4) To develop personal power and the ability to speak well and to the point both in public and in the class-room. (5) To add to the teacher's knowledge by the discussion of certain principles of literary interpretation, the ability to present literature through adequate living Oral Interpretation which shall arouse in his students a genuine love and enthusiasm for the best. Appreciation of the meaning and beauty of literature is the first requisite of a successful teacher of reading. (6) To establish the Criteria of Vocal Expression, by presenting a practical, definite, graded method of instruction. As correct vocalization precedes all good reading the most essential vocal exercises are given for the development of naturalness and the preserving of individuality. This course will be of aid to all teachers who aim to develop the student from within rather than from without.

This, together with a Public School Teachers' Course in Physical Education is required of all Freshman Normal and Expression students. Elective for other students by permission of instructor.

Text-books: S. H. Clark, How to Teach Reading in the Public Schools; Edna Lyman, Story Telling; What to Tell, and How to Tell It.

Ib. Public School Teachers' Course.

Open to those who have completed Ia, of which it is a continuation. Required of all Sophomore, Normal and Expression Students. The results to be expected after completing course I (a and b) is natural expression reading on the part of the prospective teachers, and the ability to instruct children in the public schools so that they may become good readers, possessing truly expressive voices.

IIa. Personal and Literary Culture Course.

This course offers training for the development of personal power and literary culture; for the development of freedom and facility in the Self-Expression of every-day life, as well as for the development of dramatic ability and the artistic interpretation of the printed page.

1. Vocal and mental technique. Breathing and vocal gymnastics. Voice culture, through the imagination. Vocal training for purity, control, quality and strength. Expression

through the voice. Reading aloud. Careful analysis of the printed page. Thinking is awakened and its processes studied. As this is the basis of all future work, much stress is laid upon the power to interpret the printed page. Topics are assigned for investigation and the result given in conversation. Extemporaneous speech or criticism.

2. Speech as a Mode of Personality. Tone, diction, melody, etc., as elements of expression in pure English, in provincialism and dialect.

3. Gesture According to Psychological Laws. Spontaneous Gesture exercises resulting from mental stimulus, not from the practice of set forms of movements. Analysis of the kind of gesture: Emotionally-manifestive, sympathetic, descriptive, imitative. Gesture as related to subjective and objective mental states.

4. Literary and Dramatic Interpretation. Interpretative rendering of literature through vocal expression. Classification and discussion with illustrations of the various forms of literature according to their dramatic significance in oral interpretation. Common errors in rendering. Study of the ballad, epic, story, novel, drama. Minor poets of the nineteenth century. Narrative poetry: Longfellow's Tales of a Wayside Inn, Lowell's Vision of Sir Launfall. Special attention given to the rendering of verse as cadenced and melodious verse, preserving its charm in rhythmical utterance. A study of lyric poetry with an aim to develop greater interest in the every-day reading of poetry. Open to all Freshmen. Text books: Chamberlain and Clark, Principles of Vocal Expression and Literary Interpretation; S. H. Clark, Handbook of Best Readings.

IIb. Open to all students who have satisfactorily completed course IIa, of which this is a continuation.

III. Public Speaking. Masterpieces of modern oratory are studied as models and preparation for original orations. The best passages are committed and used as a drill in acquiring a natural and effective delivery. Attention is given to the preparation and delivery of short original talks, to develop in the student the power to think on the feet. Exercises are given for the development of mental power and grasp, logical

method and control of feeling as well as voice and body. Open to all students who are enrolled in, or have satisfactorily completed I (a and b), or II (a and b). Text books: Clark and Blanchard, Practical Public Speaking. Scott, Psychology of Public Speaking.

IV. Advanced Oratory and Extempore Speaking. Open only to students who have had some experience in speaking. The work of the course consists in preparing for the criticism of the instructor, speeches which are to be delivered on public occasions. Voice and gesture are subjected to rigorous tests. Current topics and subjects of general interest are suggested for study. Careful preparation of material is required, and plans of speeches made in advance; but the choice of language is left to the moment of speaking. Special work with honor men both class and private, in preparation for debating and oratorical contests. Much time will be devoted to criticism of delivery. Delivery is treated, not as an end in itself, but as a means of informing, convincing, and persuading audiences. The aim is to bring the speaker into the mental attitude of a purposeful conversation. Registration only by permission of the instructor. Text books: Phillips, Effective Speaking.

V. Advanced Literary and Dramatic Interpretation. The story and the novel. Poetry and drama. Browning's short poems. Spirit, form and peculiarities. Study of the Monologue. Tennyson's poetry. If the end of education is character, then information and wisdom are not all the essentials in education. Of the greatest value in the system of education is the study which deals with the development of imagination and sympathy. The sympathetic comprehension and the sympathetic expression of ideal poetry is the greatest means toward developing imagination and feeling. The student is enabled through vocal interpretation of poetry to experience emotions with which otherwise he might never come in contact. Open only to Juniors and Seniors who have satisfactorily completed I (a and b), or II (a and b).

VI. Shakespeare. Plays are studied from the interpretative point of view, assigned passages being committed and presented before the class. Analysis and study of the character plot and incidents, together with a careful expressional

reading of one entire play. Each year the play selected will be other than that studied the preceding year. Students showing special adaptation for this work may repeat the course. Registration only by permission of the instructor.

VII. Artistic Rendering. A practice course in which each student reads and recites selections, stories or scenes selected and prepared by himself, for the criticism of the class and the instructor. Special attention is given to voice, diction, phrasing, rythm, gesture and other elements of expression in each selection rendered. Frequent appearance of the student in private and public recitals enables him to realize his art ideals and intentions in his own work, as well as to give that development that comes through doing.

Open, with consent of instructor, to those who have completed or are registered in any of the other courses in this department.

VIII. Acting Drama. For the purpose of promoting Dramatic Study, and for the acquirement of ease and freedom of manner. A course in the acted drama is offered each year. Two or more standard plays are presented, one during the first semester, and one at Commencement. Students desiring to take the course may be enrolled by permission of the instructor. The number taking the course is restricted to the number of parts in the play. All students entered must meet regularly for rehearsals at times appointed by the instructor, under whose supervision all rehearsals are held.

IX. Normal Course in Expression. The methods employed in this course are strictly normal in character, and are designed to prepare the student to teach Expression. A course of parallel reading from standard works on Expression, Oratory, and the Drama is offered. Associated with this work is a course in Physical Education, which presupposes a mastery of fundamentals and has for its aim the best methods of teaching and practice of physical culture as an important factor in the various forms of expression. Open only to Senior Expression students who have satisfactorily completed all the required work for entrance to this course.

Note: All courses in Expression and Physical Education are offered annually, and must be continued throughout the

year, otherwise no credit is given. Each course gives one hour credit, and four credits in Expression may be credited toward the A. B. degree. Physical Education is required of all Freshman, Normal, and of Freshman and Sophomore Expression students. Elective for all other young women. This requirement is made in recognition of the needs of physical development as a most valuable adjunct to the courses in Expression. The courses in physical education are open only to young women. The Military and Athletic departments offer unusual advantages to young men. Course I (a and b), or II (a and b), embodying the principles of expression and giving the foundation for all future work in Expression must be taken in regular order. After satisfactorily completing one of these courses, the student may register in other courses by permission of the instructors. Students electing work in Expression and Physical Education should apply to the instructor in charge, in Expression Hall, during registration week for an early assignment of hours. A thorough physical examination will be given before students are assigned to classes in Physical Education.

COURSE IN PHYSICAL EDUCATION.

KATISUE MOORE, *Assistant Instructor in Charge of Women's Gymnasium.*

The course in Physical Education for young women embraces a wide field for the development of the body and for quickening the mind. The methods adopted are those used in the leading gymnasiums of the United States. Several systems are employed.

Pupils are advised as to their defects and suitable exercises suggested that will aid and oftentimes overcome unsymmetrical conditions.

The Swedish or Ling System is used for discipline as well as for muscular training. Quick, accurate movements are practiced to secure co-ordination of muscle and mind.

The Ralston System furnishes a succession of movements which develop skill, power, and elasticity, and tones up and vitalizes the organs.

The Emerson System perfects rythm and harmony; corrects bodily ailments, and brings about self-control. Poise of bearing and unity of action are outgrowths from the practice of the Emerson System of exercises.

Besides the three named systems, several others are constantly employed. Mrs. Emily M. Bishop's methods, the Mazdazman (a Persian system), the Robertson, and Free Gymnastics from Dr. Anderson's school are taught for poise, presence, bearing; for stimulating the vital organs; for inspiration as well as for ease and grace of manner.

Normal Work. The exercises taught to the Normal Class are graded. The aim is to instruct the prospective teacher that her knowledge may be adapted to the class room, whether in the country or city.

Bodily Expression. Public exhibitions are given each year. These are made up of drills with wands, Indian clubs, dumbbells, rings, bar-bells, aesthetic and folk dancing.

Apparatus: Heavy physical training is given on the horse, the ladder, the barstalls, the spring board, the low and high parallel bars, the horizontal bars, the trapeze, the flying rings and mats.

Much attention is paid to rhythmical inhalation and exhalation done with musical accompaniment. The Gilbert gymnastic, aesthetic, and folk dancing is practiced daily with suitable music; gymnastic games and children's dancing—song—plays.

Tactics: Running and marching to music are practiced to develop muscular obedience to the universal law of rythm.

Lectures on hygiene, physiology and anatomy; proper dress; wholesome food; right relations one to the other; aesthetic and artistic culture as revealed by nature and art and the relationship of nature, as manifested in the human form, to art.

The requirements are a suit, made in the regulation style, and shoes. Two hours practice each week.

EXPRESSION COURSE FOR DIPLOMA

FRESHMEN—

English, three hours . . . . . (3)
Foreigh Language, three hours . . . . . (3)
History or Economics, two hours . . . . . (2)
Expression, ... (5)
Physical Education, one hour . . . . . (1)
Science, three hours . . . . . (3)

17

JUNIOR—

English, two hours . . . . . (2)
Phsycology, three hours . . . (3)
Foreign Language, three hours . . . . . (3)
Expression, six hours . . . . . (6)
Science, three hours . . . . . (3)

17

SOPHOMORE—

English, three hours . . . . . (3)
Foreign Language, three hours . . . . . (3)
History or Economics, three hours . . . . . (3)
Physical Education, one hour . . . . . (1)
Expression, five hours . . . . (5)
Science, three hours . . . . . (3)

18

SENIOR—

Ethics, three hours . . . . . (3)
Electric, six hours . . . . . (6)
Foreign Language, three hours . . . . . (3)
Expression, six hours . . . . . (6)

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DEPARTMENT OF ART.

MISS ELIZABETH GALBRAITH,
MISS EVELYN METZGER, *Assistant.*

The plan of incorporating a practical school of drawing and painting in a college course has been demonstrated as not only possible but successful in the highest degree. The studio work is conducted in the same manner as in the purely technical art schools, while the students have the advantage of other studies, thereby giving them mental development which renders them more sensitive to artistic development.

The work in the department is divided into two courses, Academic and Normal. The Academic offers a four years' course

for students wishing to specialize in art. The aim of the instruction offered is to train students to become painters, illustrators, teachers and designers. At the same time sufficient literary studies are taken to qualify for a diploma, which will be conferred upon completing the course.

ACADEMIC COURSE IN ART.

First Year.

Drawing—In charcoal from the cast.

Still Life—In charcoal, first semester. In color, second semester.

Composition—The study of the division of spaces by line, and dark and light, with particular attention to harmony and rhythm, and balance of masses.

Sketching—One afternoon a week.

Perspective—The principles of free hand perspective are taught and applied in sketching objects and interiors.

One hour a week in History of Art, beginning with the earliest period down to the Renaissance.

Second Year.

Drawing—Portrait, three mornings a week.

Still Life—Two mornings a week painting in oils.

Composition—One composition each week on some given subject.

Sketching—From pose one afternoon each week.

History of Art—From the Renaissance to the present time.

Third Year.

Full Length Drawing from life, painting from life in oil or water color.

Composition—One composition each week in color.

Sketching—One afternoon a week.

History of Art—Biography of artists.

Fourth Year.

This year's work same as third year, more independence being required.

A concourse is held once a month, the studies being afterward judged and marked according to merit by the teachers. This plan allows the student to compare his work with others and see what qualities are most valued by the instructors.

The department arranges for exhibitions from other schools which are held from time to time in the studios. These are open free to all students of the University.

FRESHMAN—

English, three hours.
Foreign Language, three or four hours.
Biology, three hours.
History, two hours.
Art, four hours.

SOPHOMORE—

English, three hours.
Foreign Language, three hours.
Economics, two hours.
Biology, three hours.
Art, four hours.
Art History, one hour.

JUNIOR—

English, two hours.
Psychology, three hours.
Economics, two hours.
Elective, three hours.
Art, five hours.
Art History, one hour.

SENIOR—

Ethics, three hours.
Elective, five hours.
English, two hours.
Art, five hours.
Art History, one hour.

NORMAL COURSE IN ART.

The Normal Course of Public School Drawing is divided into two courses, a one-year course, the required work for every matriculate for the L. I. degree, which takes up a critical study of theories and methods in the teaching of art in the public school. A second year is offered to students wishing to become supervisors and special teachers of drawing, with the details of art education. In both courses the students obtain much theory and practice, also a development of æsthetic appreciation of the beautiful. The principles in the training of teachers for public school drawing is from a purely educational standpoint. The truths of nature and the principles of design are taught as the subject-matter of drawing, the pictorial and illustrative art as forms of expression the pupils will not only acquire some knowledge of the simple fundamentals of science and art, but they will learn to see with intelligence, to think with continuity, and to work with skill.

"Drawing in the public schools hitherto taught to train the hand and eye only we feel now to be one of the fundamental modes of human expression second only to the spoken and written word."

CRAFT CLASS.

Instruction in applied design or craft work is offered free to a limited number, students in special class being given first place. The decoration and execution of articles in leather, metal, etc., is taught chiefly to develop the power to appreciate a fine piece of work and the ability to discriminate between good and bad design.

THE MEDICAL SCHOOL

Little Rock.

FACULTY AND TEACHING STAFF.

J. L. DIBRELL, M. D.
A. E. SWEATLAND, M. D.
H. H. KIRBY, M. D.
R. L. MAXWELL, M. D.
D. C. WALT, M. D.
T. E. HODGES, M. D.
S. P. VAUGHTER, M. D.
Anatomy, Histology and Embryology.

E. M. PEMBERTON, M. D.
Laboratory Demonstrator to be supplied
Physiology.

C. E. WITT, M. D.
MILTON VAUGHAN, M. D.
Materia Medica, Pharmacology, and Therapeutics.

A. R. STOVER, A. M., M. D.
Laboratory Demonstrator to be supplied.
Chemistry.

JOS. D. ARNSON, M. D.
L. O. THOMPSON, M. D.
J. B. DOOLEY, M. D.
R. C. KORY, M. D.
Pathology, Bacteriology, and Hygiene.

J. C. CUNNINGHAM, M. D.
E. N. DAVIS, M. D.
E. MEEK, M. D.
Obstetrics.

EDWIN BENTLEY, M. D., U. S. A.
(Retired) *Emeritus.*

J. P. RUNYAN, M. D., Vice-Dean.
C. E. BENTLEY, M. D.

FACULTY AND TEACHING STAFF—Continued.

W. A. SNODGRASS, M. D.
ANDERSON WATKINS, M. D.
CHAS. HOLT, M. D.
Surgery.

E. R. DIBRELL, M. D.
R. W. LINDSEY, M. D.
A. E. HARRIS, M. D.
O. K. JUDD, M. D.
H. H. NIEHUSS, M. D.
A. L. CARMICHAEL, M. D.
Medicine.

C. R. SHINAULT, M. D.
M. D. OGDEN, M. D.
OSCAR GRAY, M. D.
R. L. SAXON, M. D.
Gynecology.

WM. R. BATHURST, M. D., Secretary.
Dermatology and Syphilology.

JAMES H. LENOW, A. M., M. D., Dean.
J. P. SHEPPARD, M. D.
M. D. McCLAIN, M. D.
FRANK YOUNG, M. D.
Genito-Urinary Diseases.

D. R. HARDEMAN, M. D.
MORGAN SMITH, M. D.
Pediatrics.

F. VINSONHALER, M. D.
Ophthalmology.

ROBT. CALDWELL, M. D.
Rhinology and Laryngology.

J. G. WATKINS, M. D.
Otology.

J. L. GREENE, M. D.
Pyschiatry.

E. P. BLEDSOE, M. D.
Neurology.

FACULTY AND TEACHING STAFF—Continued.

J. VINCENT FALISI, M. D.
C. P. MERIWETHER, M. D.
Proctology.

A. M. ZELL, M. D.
L. D. REAGAN, M. D.
Electro-Therapeutics and Roentgenology.

Y. E. WHITMORE, D. D. S.
Stomatology

M. E. DUNAWAY, A. B., LL. D.
Medical Jurisprudence.

All communications should be addressed to
W. R. BATHURST, M. D.,
Secretary of the Faculty, Little Rock, Ark.

THIRTY-FOURTH ANNUAL ANNOUNCEMENT

OF THE

UNIVERSITY OF ARKANSAS

MEDICAL DEPARTMENT

HISTORICAL.

The Medical Department of the Industrial University was organized in 1879, and the first course of lectures commenced on Tuesday, October 7, 1879, and continued until March, 1880, there being twenty-two matriculants, one of whom received the degree of Doctor of Medicine. Each succeeding year the faculty has awarded diplomas to classes of increasing size until the alumni now number over four hundred and fifty. There have been about twenty-seven hundred matriculations since the school began.

The department's first building was located at 113 West Second Street, but owing to its rapid growth, the present building, designed for the purpose, was erected on Second and Sherman streets in 1890. This building has again been outgrown and there is now in contemplation a magnificent new structure, the details of which are given elsewhere. The name was changed by legislative enactment to University of Arkansas, Medical Department, in 1899.

On July 1, 1911, the Medical Department, in pursuance of an act of the Legislature, was merged with the College of Physicians and Surgeons at Little Rock, and the institution placed under the control of the trustees of the University of Arkansas. At present it receives no appropriation from the State. The Board of Trustees has directed that after 1913, the first two years of the course shall be given at Fayetteville.

GENERAL STATEMENT.

The thirty-fourth annual session of the University of Arkansas, Medical Department, will begin Monday, September 16, 1912, and will continue for eight months.

The matriculation book will be open from and after September 1, to students wishing to matriculate early and secure choice seats.

The trustees and faculty wish to express their appreciation of the continued support of the public and of the medical profession for the past thirty years. It has always been their ambition to keep abreast of the rapid progress which is being made in medical education, and the buildings, laboratories, and various departments have been progressively extended to meet these growing demands. The department has thus received the cordial endorsement of the Arkansas Medical Society, which annually appoints a board of visitors.

COEDUCATION.

The department is coeducational, women being admitted on the same terms as men.

LOCATION.

The city of Little Rock is conveniently situated in the center of the State, and railroads enter from every direction, making it easily accessible.

It has a population of more than 75,000 and is one of the progressive cities west of the Mississippi river.

The school is located on East Second street, corner of Sherman street, and the buildings formerly occupied by the College of Physicians and Surgeons, on Lincoln avenue.

Students on arrival are urged to come at once to the University building, corner of Second and Sherman streets, where a list of parties desiring to board medical students will be furnished and where the Registrar may be found. Those arriving over the Rock Island lines at the Rock Island depot on East Second street may reach the school by going four blocks west on Second street to Sherman, or may take a street car to Markham and Sherman and walk one block south. Those arriving over the Cotton Belt and Iron Mountain lines, at the union station, should take any car passing depot and transfer at Main and Markham to an East Markham car, Marked Choctaw Depot or Rock Island Depot, and get off at Sherman street and walk one block south.

Persons desiring further information are requested to address Dr. James H. Lenow, Dean, or, Dr. J. P. Runyan, Vice-Dean, Second and Sherman streets, Little Rock, Ark.

EXPENSE OF LIVING.

The expense of living in the city of Little Rock will of course vary according to the views and habits of the students. Good board, at the present time, including lodging, fuel and lights, may be had at a convenient distance from the college, at from $5.00 to $7.00 per week, or from $15.00 to $20.00 per month.

BUILDINGS.

The department's first building was located at 113 West Second Street, but owing to its rapid growth, a building, designed for the purpose, was erected on Second and Sherman streets in 1890. This building is a brick structure three stories in height and admirably arranged for the convenience of both students and instructors. It has a large lecture hall, a fine amphitheater, museum, dissecting room, laboratories, etc. Two thousand dollars has recently been spent in repairs and improvements.

This building proving inadequate to the growing needs of the school, an additional building has been recently secured and fitted up as a laboratory building. It is situated on Markham street, adjoining the City Hospital and the main building. In this building are located the laboratories of Histology, Physiology, Pathology, Bacteriology, Clinical Microscopy and Surgical Pathology. These have been newly and completely equipped, at large expense, with all necessary apparatus for efficient laboratory teaching, including fifty new, modern microscopes. In addition to this the building and laboratory formerly used by the College of Physicians and Surgeons will be utilized for laboratory and clinical instruction.

HOSPITALS AND CLINICAL FACILITIES.

Logan H. Roots Memorial Hospital.

This public city hospital was founded by the late Logan H. Roots, and the same interest in the institution has been displayed by his widow, exemplified by many acts of benevolence and hearty co-operation with hospital authorities.

This hospital is connected by closed corridors with the clinical amphitheaters of the college building.

A large medical and surgical dispensary is connected with this hospital, which is conducted by the city physician, a member of our faculty.

With such a large medical and surgical clientele, always incident to a city hospital, and on account of the proximity of same to the college building, the student enjoys exceptional clinical advantages.

Pulaski County Hospital.

Situated in the southwestern part of the city and convenient to car line, this handsome $100,000 institution is presided over by a member of our faculty.

The indigent sick, acute and chronic, surgical, medical and mental are treated in this hospital, which has a capacity of two hundred beds. Clinics will be held here throughout the session.

University Hospital.

The University Hospital, owned and conducted by Dr. E. Meek, a member of the faculty.

The college, recognizing the fact that hospital facilities are essential to modern medical and surgical teaching, have perfected arrangements with Dr. Meek, the owner of the University Hospital, by which our students can receive instruction in the hospital. It is well equipped with modern operating rooms, where students may witness operations of every class and follow up the after treatment and care given surgical cases, which is so essential to successful surgery.

Medical cases are received and each student will be enabled to personally examine patients and watch the various diseases and study critically the nature of each under the guidance of the teachers of clinical medicine. Gynecological cases will be given special attention. This hospital has a capacity of one hundred beds, private rooms and wards.

It has rooms especially arranged for the care of acute nervous and mental diseases and the treatment of inebriety and narcotic habits.

Maternity wards for the care of obstetrical cases.

The college maintains an outdoor clinic, where a great many afflicted people receive treatment daily, throughout the entire year.

The Arkansas State Penitentiary Hospital.

Offers superior clinical advantages, both medical and surgical, to advanced students.

The Isaac Folsom Clinic.

DR. EDWIN BENTLEY, *Director.*

This clinic is thus designated in honor of the late Dr. Isaac Folsom, and in consideration of his liberal endowment with the sum of $20,000.00. The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of diseases and injuries. More than 7,000 patients attended this clinic last year.

This clinic is under the direct and exclusive control of this faculty, and all its vast material is available for teaching purposes.

In order that advanced students shall have every clinical advantage, the Senior Class is divided into sections. These serve in rotation in each of the departments, i. e., General Medicine; Eye, Ear, Nose and Throat; Gynecology; Surgery, Pediatrics; Genito-Urinary Diseases; Diseases of the Skin, and Diseases of the Nervous System.

St. Vincent Infirmary.

The St. Vincent's Infirmary, designed solely for the treatment of acute diseases, has a capacity of nearly two hundred beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is under the supervision and management of trained nurses, Sisters of Charity. This magnificent institution, conveniently situated, is the finest and best equipped institution of its kind in the Southwest, and is up to date in every respect.

This hospital has been recently enlarged to double its former capacity by building a magnificent new wing on the west side, at an expense of $50,000.00.

State Institutions.

All of the eleemosynary institutions of the State are located here. These include the Schools for the Blind, the School for Deaf-Mutes, the State Hospital for Nervous Diseases, Penitentiary, Reform School, County and City Hospitals, etc., all of which contribute to the abundant clinical material at the disposal of the Faculty.

The inmates of these different institutions embrace all classes and conditions of people—white, colored, male, female, adults and children—and with them are found almost every form of malady.

REQUIREMENTS FOR MATRICULATION.

The educational requirements for admission to this college for those beginning the study of medicine is the standard demanded by the rules of the Association of American Medical Colleges, and by the State Board of Medical Examiners of the Arkansas Medical Society.

This may be shown by the following:

Section 1. A creditable certificate of good moral character, signed by at least two physicians in good standing in the State from which applicant comes.

Section 2. Beginning with the session of 1911 and 1912, an entrance certificate as issued by this board must be required of all applicants for matriculation.

Section 3. These entrance certificates will be issued upon, (a) acceptable credentials; (b) the successful passing of an examination before the State Superintendent of Public Instruction or his authorized agent.

Acceptable Credentials.

Section 4—

(a) A diploma from a reputable university or college granting degree of A. B., B. S., or equivalent degree.

(b) A diploma or certificate of graduation from an accredited four-year high school or college whose course of instruction equals that required for entrance by the University of Arkansas.

(c) Evidence of having passed a matriculation examination of a recognized literary or scientific college.

(d) A certificate of successful examintaion equivalent to the matriculation examination by the faculty of any reputable university or college.

(e) A certificate of having passed successful examination before the State Superintendent of Public Instruction or his authorized agent.

Examination for Matriculation.

Section 5. All applicants for matriculation in a medical college in this State who are not in possession of acceptable credentials will be required to undergo an entrance examination.

These examinations will be conducted in the city of Little Rock, by the State Superintendent of Public Instruction, or his authorized agent.

Examination will be conducted according to rules governing the examination for admission to the University of Arkansas. The examination papers will be graded by the authority who prepares the questions or by committee appointed by him. Applicants will be required to make a general average of 70% in this examination. Applicants for examination are requested to refrain from indicating in any way to what medical college they desire admission.

After papers have been graded as above mentioned, they will be forwarded to the secretary of the State Medical Board, who will on receipt of same issue to those whose examination has been satisfactory, an entrance certificate permitting them to enter any medical college in the State of Arkansas.

Section 6. The secretary of this board will keep a record of applicants to whom entrance certificates have been issued.

Number of Credits Required.

Section 7. For full admission to medical college credit for thirteen units will be required. Seven of these must be from prescribed subjects, but the remaining six may be taken in any of the elective subjects named below.

Section 8. There may be allowed three conditional units from the elective group but these conditional units must be removed by the Sophomore year and as an evidence that the seconditional units have been removed, the applicant must submit to a second examination before Superintendent of Public Instruction or his authorized agent.

Respective Values of Required and Elective Studies.

REQUIRED:

Section 9—

English, 3; Algebra, 2; Plane Geometry, 1; United States History, 1.

ELECTIVE:

Latin, 4; Greek,3-4; French, 3-4; German, 3-4; English, 1 in addition to required, Ancient History, 1; Modern History, 1; English History, ½-1; Physical Geography, ½-1; Physiology, ½-1; Botany, ½-1; Zoology, ½-1; Biology, 1; Chemistry, 1; Physics, 1; Civil Government, ½; Agriculture, ½-1; Elementary Pedagogy, ½-1; Elementary Psychology, ½; Manual Training, ½.

ADVANCED STANDING.

Candidates who have completed one or more years of study in an approved medical school, and apply for admission to advanced standing, will be admitted to the standing to which their record in that medical school would admit them, and he given credit for all courses satisfactorily completed therein, on presentation of proper certificates covering the same; provided that the candidates, before beginning the study of medicine, have fulfilled the requirements for admission demanded by this school.

Students who apply for entrance under this ruling are requested to file their applications as early as possible to avoid delay in matriculating at the beginning of the session.

Each student shall be obliged to attend at least 80% of the exercises in every annual course of study for which he seeks credit.

FINAL EXAMINATION.

At the end of each session examinations are held in all of the branches taught during the year. Students are required to take these examinations to advance with their class.

Proficiency is marked upon a scale of 100. A grade of 75 is required to pass an examination.

A grade of 50 to 74 conditions the student, who is allowed one year in which to take a reexamination. A grade below 50 indicates a failure. The student must take the subject over again.

Examinations for removal of conditions are held the first week in November.

RULES REGARDING CONDITIONS AND FAILURES.

1. No entrance condition can be carried into the Sophomore year.

2. No Freshman condition can be carried into the Junior year.

3. No Sophomore condition can be carried into the Senior year. No Junior condition can be carried into the second semester of the Senior year.

4. Any student conditioned or failing in branches representing one-third the work of a year, is classified again in the same year.

5. Students who fail in any subject are required to take that subject again the following year, and to omit any subjects in the advanced year's work that conflict therewith.

6. Students who fail to pass off a condition on a second examination are required to take the subject over again.

REQUIREMENTS FOR GRADUATION.

1. The candidate must be twenty-one years of age, must present satisfactory evidence of good moral character, and must have complied with the entrance requirements.

2. All candidates must have attended four complete courses of lectures, at one or more recognized medical colleges with equal requirements, no two of which are comprised in the same calender year, and the last of which must, under all circumstances, have been at this school.

3. The candidate must have passed a satisfactory examination in each and all branches of the curriculum.

4. He must have paid all of the college fees.

DISCIPLINE AND GOOD ORDER.

The Faculty expect all students to observe the principles of good conduct and order in the course of their connection with the college; any infraction will be dealt with by the infliction of such penalties, including expulsion, as they may deem just, subject to the general power of the Trustees.

TERMS.

All fees and dues are payable in advance.

It is dersiable that the students should register as early as possible for seats in the lecture room and amphitheater are assigned in the order of registration. By remitting $5.00 to apply on tuition, students may register at any time, and thus obtain a desirable seat and precedence in the various classes.

When a student enters the school and pays the required fee, it is taken for granted that he has given the matter due consideration, and that he is prepared to pursue the course of study prescribed. The Faculty stands ready to perform its part of the work, as laid down in the curriculum. For these reasons fees once paid by the student can not for any cause whatsoever be refunded or transferred. A student, however, who has paid his tuition fee, and for good reason is unable to complete his session, will be given credit for the amount, and upon his return to the school at some subsequent time he will not be required to pay the same fee for the second time.

Considering the exceptional advantages for practical instruction in hospital and laboratories, and the constant care

and labor bestowed upon the pupils, the charges are as low as are compatible with the superior advantages given.

FEES FOR THE REGULAR COURSE.

Total tuition fee, each year, $125.00, which includes laboratory fees.

The fee for examination for graduation and diploma is $25.00.

There are no fees for special courses or quizzes in this college. No professor, instructor or assistant is allowed to receive a fee for instruction.

A deposit of $3.00 to cover the breakage and deterioration of chemical apparatus is required upon entering the chemical laboratories of the first and second years, respectively. Any excess due a student is refunded at the end of each session.

A deposit of $1.00 to $5.00 to cover breakage in other laboratories will be required, and must be paid before any assignment is made to laboratory work. This deposit will be returned at the end of the session, less the deductions to be made for loss or breakage of apparatus, damage to college property, etc.

Students who are compelled to repeat a year through failure to pass the final examinations of that year will be charged the regular tuition fee for the repeated year; but students who have paid their fees for four regular sessions in this school are allowed to attend subsequent sessions without charge, except for registration, the fee for which will be $10.00.

Candidates for graduation who fail will be charged a tuition fee of $50.00 for another session, unless they have attended all four of their courses at this school.

No reduction from above fees will be made.

Graduates from this school have a perpetual free admission.

Graduates of other recognized medical colleges who are candidates for the M. D. degree of this college must pay the annual tuition fee and take the regular work of the Senior Class.

ANNUAL LIMITATION OF RULES AND FEES.

All the above rules, as well as the fees stated, relate to the year ending May 10, 1912, only. The right is reserved to make changes in the curriculum, rules of examination, the corps of instructors, and all the regulations whenever the Board of Trustees deem it expedient.

COURSES AND METHODS OF INSTRUCTION.

The course of instruction embraces four separate sessions of eight months each, in conformity with the rules of the Association of American Medical Colleges.

The first and second years are devoted to thorough instruction in Anatomy, Physiology and other sciences fundamental to practical medicine. Special attention is devoted to dissecting, and unusual facilities are offered for laboratory work. In the third year didactic and clinical work are taken up in the general fields of medicine, surgery, obstetrics, special pathology and therapeutics. The fourth year is devoted to advanced work in medicine, surgery, to the various specialties and to clinical study.

For a detailed description of the courses offered in the various subjects, apply to the Dean of the Medical Department, University of Arkansas, Little Rock, Ark.

DEPARTMENT OF PHARMACY

Little Rock.

Announcement of the Fourth Annual Session, Opens October 1, 1912, Closes April 29, 1913.

JAMES H. LENOW, A. M., M. D.,
Dean.

J. P. RUNYAN, M. D.,
Vice-Dean.

J. F. DOWDY, Ph. G., Ph. C., *Dean.*
Prof. Practical Pharmacy.

JESSE D. HODGES, Ph. G., *Secretary.*
Prof. Theory and Principles of Pharmacy.

F. J. PITTMAN, Ph. G.,
Prof. Commercial Pharmacy.

A. R. STOVER, A. M., M. D.,
Prof. Chemistry.

W. M. McRAE, Ph. B., M. D.,
Prof. Botany, Materia Medica and Physiology.

J. W. MEHAFFY, A. B., LL. D.,
Prof. Pharmaceutical Jurispudence.

J. F. ENGLAND, Ph. G.,
Associate Prof. Chemistry.
Associate Prof. Botany, Materia Medica and Physiology.

COURSE OF STUDY.

The curriculum in this department includes a two years graded course, each course to consist of seven months of instruction in the theory and practice of Pharmacy, Materia Medica, Pharmacognosy, Physiology, Botany, Physics, Inorganic and Organic Chemistry, Qualitative and Quantitative Analysis and Toxicology.

The methods of instruction consist of lectures, recitations and practical laboratory work in Chemistry, Pharmacy and Materia Medica. The latter includes the study of the crude drugs and the preparation and dispensing of all the medical agents in the pharmacopoeia.

PRACTICAL PHARMACY.

PROF. J. F. DOWDY, Ph, G., Ph. C.,

This department is especially designed for the active, every-day duties of a pharmacist. Each class, Senior and Junior, is required to occupy six hours each week during the session in the laboratory. These courses are intended to give practice in the processes of manufacturing and dispensing pharmaceutical preparations. Practical instruction in the following subjects is given: The use of the balance, thermometer, hydrometer and specific gravity, bottle, distillation, percolation and repercolation, including the manufacture of tinctures and fluid extracts; the application of direct and steam heat in its various forms, including the manufacture of syrups, solids, extracts, etc.; making emulsions, pill masses, troches, capsules, wafers, ointments, plasters and suppositories.

Special attention will be given in the compounding of prescriptions and practical dispensing, having access to free dispensaries. This work is carefully planned to include prescriptions presenting the class of manipulations met with in dispensing and accompanied by critical examination of many cases of incompatibility.

THEORY AND PRINCIPLES OF PHARMACY.

PROF. JESSE D. HODGES, Ph. G.

The instruction of this department will consist of lectures and quizzes, beginning with the study of the pharmacopoeia, and explanation of the various pharmaceutical operations, covering all of the U. S. P. preparations, concluding with assay work and a thorough training in prescription reading and writing.

COMMERCIAL PHARMACY.

PROF. F. J. PITTMAN, Ph. G.

The topics studied in this course are of interest to the pharmacist as a business man, and includes commercial business, stock, methods of buying and selling goods, advertising,

manufacturing, bookkeeping, business correspondence, insurance, banking and business forms, partnership, professional and business ethics.

PHARMACEUTICAL JURISPRUDENCE.

PROF. J. W. MEHAFFY, A. B., LL. D.

The subject of Pharmaceutical Jurisprudence, is divided into five divisions, first Jurisprudence, second Contracts, third Commercial Paper and Banking, fourth Agencies, Partnership, Property and Insurance, fifth Statutory Regulations of the Practice of Pharmacy.

PHARMACEUTICAL MATHEMATICS.

PROF. JESSE D. HODGES, Ph. G.

The course in mathematics begins with review of common and decimal fractions, percentages, ratio and proportion, then the application of this to weights and measures, therometric scales, adjustment of percentages, specific gravity and chemical problems are very thoroughly studied.

PHARMACEUTICAL LATIN.

PROF. J. F. DOWDY, Ph., G. Ph., C.

The properly trained pharmacist requires a knowledge of the rudiments of Latin to enable him to read prescriptions intelligently. To meet this requirement a course in the elements of Latin is given, special attention being paid to pharmaceutical terminology.

CHEMISTRY.

PROF. A. B. STOVER, A. M., M. D.
ASSOCIATE FROF. J. F. ENGLAND, Ph. G.

This important subject is taught by a systematic course of lectures illustrated by experiments and supplemented by recitations and practical work in the chemical laboratory.

During the first part of the Junior year, the subject of physics is taken up to be followed by a course of inorganic

chemistry. In the study of the various chemical substances, special attention is called to their relations to pharmacy. The practical knowledge thus obtained is essential to the pharmaceutical chemist. Special attention is paid to toxicology. All the various tests and antidotes are explained by practical demonstration and the best method of treatment in cases of poisoning.

The student is required to take two practical laboratory courses.

The Junior course includes inorganic chemistry and qualitative analysis.

The Senior year consists of a course of lectures upon organic and physiological chemistry, and laboratory work is required. The general principles of the subject are taught and the student is required to familiarize himself with the composition, properties and use of drugs derived from this department of chemistry.

During the Senior year quantitative analysis is taken up, and practical laboratory work is required of all students applying for graduation.

BOTANY, MATERIA MEDICA AND PHYSIOLOGY.

PROF. W. M. MCRAE, Ph. B., M, D.
ASSOCIATE PROF. J. F. ENGLAND, Ph. G.

This course will embrace the study of plant life in general. The microcopic and macroscopic structure and morphology of the principal drugs, unofficial and official, the recognition of the various preparations of these drugs contained in the pharmacopoeia and dispensatory.

Physiology will be taught sufficiently to give the student an intelligent idea of the structure of the various organs of the body, that he may better understand the action of drugs on same.

MICROSCOPY AND PHARMACOGNOSY.

PROF. W. M. MCRAE, Ph. B., M. D.
ASSOCIATE PROF. J. F. ENGLAND, Ph. G.

Ample time will be devoted to microscopy to make the student familiar with the use of the microscope. He will be

instructed in the examination of drugs, both cut sections and powdered, and expected to recognize the principal active drugs and any adulterations of same.

EXAMINATIONS.

Examinations which are both oral and written, are held during the week preceding Christmas vacation, and at the close of each course. Students who fail to pass a satisfactory examination at the close of the Junior course will be given an opportunity to stand a second examination at the beginning of the next session on branches in which they were found deficient the preceeding year. The final examinations for graduation is held at the close of the Senior year.

REQUIREMENTS FOR ADMISSION.

A student applying for admission must give satisfactory evidence of sufficient preliminary education to begin the study of pharmacy. He must show a written evidence that he has an education equivalent to graduation from a recognized high school.

REQUIREMENTS FOR GRADUATION.

Two degrees are conferred by this college, Ph. G., and Ph. B. The candidate for the degree of graduate in Pharmacy must be twenty-one years of age, of good moral character, must have attended two full courses of instruction of seven months each in a reputable College of Pharmacy, the last of which must have been in this institution. He must also show a sworn statement from a known reputable registered pharmacist that he has, during at least two years, served in a pharmacy where physicians' prescriptions are compounded. He must stand satisfactory examination in theory and practice of Pharmacy, Inorganic and Organic Chemistry, Toxicology, Commercial Pharmacy, Forensic Medicine, Materia Medica, and Therapeutics, Botany. Physiology, Pharmacognosy and First Aid in Injuries and Diseases. Students receiving the Ph. G. degree can register with the Arkansas State Board of Pharmacy without an examination.

The candidate for degree of Bachelor in Pharmacy must meet with all the above requirements, except that he does not have to possess a certificate of practical experience in a drug store. The degree will not be conferred upon a candidate who absents himself from commencement without permission of the faculty.

FEES.

Including all fees for the course	$75.00
Graduation fee (Senior)	25.00

All fees due and payable in advance.

GENERAL INFORMATION.

For further information, address J. F. Dowdy, Dean, or Jesse D. Hodges, Secretary, Second and Sherman streets, Little Rock, Ark.

THE LAW SCHOOL.

Little Rock.

JOHN NEWTON TILLMAN, LL. D.,
President of the University.

J. H. CARMICHARL, LL. B., DEAN.
Contracts, Domestic Relations, Conflict of Laws, Judgments.

JOHN FLETCHER, LL. M.,
Real Property.

GEORGE W. MURPHY, LL. B.,
Law of Evidence.

TOM M. MEHAFFY, LL. B.,
Law of Torts.

JACOB TRIEBER, LL. B.,
Federal Procedure.

T. N. ROBERTSON, LL. B.,
Agency, Corporations, Negotiable Instruments, Pleading and Practice.

WILLIAM. M LEWIS, LL. B.,
Criminal Law and Procedure.

JOHN E. MARTINEAU, LL. B.,
Equity Jurisprudence.

W. B. BROOKS, LL. B.,
Constitutional Law, Assistant to Chair of Real Property.

R. C. POWERS, LL. B.,
Partnership, Bailments.

J. W. HOUSE, JR., LL. B.,
Law of Sales.

R. E. WILEY, LL. B.,
Law of Bankruptcy.

GEORGE VAUGHAN, LL. B.,
Abstracting and Searching Titles.

WALTER G. RIDDICK, LL. B.,
Law of Insurance.

JOHN T. CASTLE, D. C. L.
Fraudulent Conveyances.

LOCATION.

The Law Department of the University of Arkansas is located in the city of Little Rock. The location is an ideal one for the school. Being the Capital City, the legislature meets here every two years, thus affording each student an opportunity during his course to witness one session of that body, to observe its proceedings, to study parliamentary rules and practice, and to meet representative men from different parts of the State.

The Supreme Court of the State sits in this city and is in session about nine months of each year. Students have full opportunity to attend its deliberations, to listen to arguments by the ablest lawyers of this and other States before this distinguished tribunal, and to hear the opinions of the court upon propositions of law and determination of causes submitted for their decision and final disposition.

Through an arrangement with the clerk of the Supreme Court the school is enabled to secure each student access to the Supreme Court Library, where almost any book on a legal subject may be found. The library is a very fine one, and the opportunity thus afforded to students to use same is of incalculable benefit.

The Federal district and circuit courts, two State circuit courts, a chancery court, and county and probate court, police and magistrate's courts are all accessible to the student for observation and instruction, both in the law and in the practical procedure in the courts for the enforcement of its principles.

The city has an able bar, the members of which are kind and courteous to beginners in the work of the profession, and generously extend to them aid and counsel.

Little Rock has a semitropical climate, free from extremes of heat and cold and admirably suited to the needs of the student.

PURPOSE.

It is not the purpose of the Law Department of the University of Arkansas to persuade any young man to study law

who does not of his own free will choose to do so. But all those who contemplate the study with the view of entering upon the practice of the law as a profession or for the protection and valuable assistance a knowledge of the law affords in the successful prosecution of almost every line of business enterprise, or even for the mental culture, the broad and liberal conception, the lucid and logical reasoning, the just and accurate conclusion, which are so manifestly characteristic of the legally trained mind, the department respectfully solicits their patronage. It is to be presumed that every true son of Arkansas who aspires to the practice of the law as a profession in this State has enough State pride to select his home institution to prepare himself for his chosen vocation. Especially should this presumption hold when the advantages offered him by the Law Department of his own State University are equal, and to him, in many important particulars superior, to those of similar institutions of other States. The instructors of this department of our State University are all active practitioners of the law and have engaged in this educational work from a realization of the pressing needs of such an institution as a department of the educational system of the State to meet the demands of our young men, who are the State's best hope for her future lawyers and statesmen.

ADMISSION.

While we fully appreciate the advantages of a thorough collegiate training in the various academic branches as a preparation for the study of the law, we have not made such acquirement a prerequisite to admission to this department. Applicants will be admitted to take up the studies of the Junior course who are possessed of a fair English education, such as may be acquired in our public schools. Students may be admitted to the Senior course upon producing sufficient proof of their having given the necessary time and study to the different subjects of the law, either in another law school or under the direction of a practicing lawyer, but no student will be granted the degree until he has passed a satisfactory examination on all the branches embraced in the full course for the two years.

COURSE OF INSTRUCTION.

The course of instruction covers a period of two years, consisting of four terms. We deem a shorter period insufficient for the proper preparation of the student of the law for his profession. In the language of a distinguished jurist, "He who is not a good lawyer when he comes to the bar will seldom be one afterward." Our methods of instruction consist of daily recitations upon previously assigned lessons in the text books, with special lectures to emphasize the conclusions of the author and to enlarge the student's conception of the same. We deem the above system of instruction, with daily recitations largely predominating, superior to either the recitation or lecture system when pursued alone. In addition to the above, students are required to prepare and submit to the professors legal papers in the form of briefs upon the various topics of the text-writers, thus combining the abstract theory of the law with the practical application of the same to the different sets of facts embraced in the various decisions of the courts consulted by the student while preparing his paper. The course of study for the two years will embrace the subjects named and assigned, as follows:

Junior Year.

First Term.—Contracts, Agency, Criminal Law, Torts Partnerships.

Second Term.—Corporations, Negotiable Instruments, Real Property, Bailments, Insurance, Sales.

Senior Year.

First Term.—Real Property, Equity, Domestic Relations, Constitutional Law, Fraudulent Conveyances.

Second Term.—Real Property, Evidence, Pleading and Practice, Conflict of Law, Federal Procedure, Judgments, Legal Ethics, Bankruptcy, Medical Jurisprudence.

The first term of each year's course begins on the third Monday in September; the second term begins on the third Monday in January and ends on the first Friday in June.

List of Text Books.

Anson on Contracts; Steele on Agency; Clark on Criminal Law; Hale on Torts; Shumaker on Partnerships; Clark on Corporations; Daniel and Douglass on Negotiable Instruments; Real Property—Junior, Blackstone; Van Zile on Bailments; Vance on Insurance; Tiffany on Sales; Tiedeman on Real Property; Eaton on Equity; Long on Domestic Relations; Cooley on Constitutional Law; Wait on Fraudulent Conveyances; Hughes on Evidence; Bryant's Code Pleadings; Minor on the Conflict of Laws; Curtis on Jurisdiction of United States Courts; Black on Judgments; Frank on Bankruptcy; Reese on Medical Jurisprudence.

Publishing Houses of Foregoing Text-Books.

Anson on Contracts, Van Zile on Bailments, Hughes on Evidence—Callaghan & Co., Chicago; Steele on Agency—T. H. Flood & Co., Chicago, Ill.; Clark on Criminal Law, Hale on Torts, Clark on Corporations, Vance on Insurance, Tiffany on Sales, Eaton on Equity, Black on Judgments—West Publishing Company, St. Paul, Minn.; Shumaker on Partnerships, Long on Domestic Relations—Keefe-Davidson Company, St. Paul, Minn.; Daniel and Douglass on Negotiable Instruments, Wait on Fraudulent Conveyances and Creditors' Bills—Baker, Voorhis & Co., New York City; Real Property (Blackstone)—J. B. Lippincott Company, Philadelphia; Tiedeman on Real Property—The F. H. Thomas Law Book Company, St. Louis; Cooley on Constitutional Law, Minor on the Conflict of Laws, Bryant's Code Pleadings—Little, Brown & Co., Boston, Mass.

MOOT COURTS.

Moot courts begin with the last term of the Junior year and continue throughout the course, and are termed the judicial department of the school, and embrace all the courts—Justice, Probate, Circuit and Supreme—all modeled according to the constitutional requirements of our State.

The Supreme Court shall consist of three Judges, a Chief Justice and two associates.

Circuit Court.—The Circuit Court shall consist of one Judge, a Clerk, and a Sheriff, to be elected by the students.

County and Probate Court shall consist of one Judge, a Sheriff, and a Clerk, to be elected by the students.

Justice of the Peace Court shall consist of a member of the Senior Class, who shall be elected by the student body.

These courts shall be under the immediate supervision of the Dean, who will be assisted by the members of the Faculty in compiling statements of facts embracing principles of law pertaining to the respective branches under their instruction, for the use of said courts.

GOAR LYCEUM.

This society is composed of the students of both the Junior and Senior years, and meets regularly every Wednesday night during the session. The exercises consist chiefly of theses and debates embracing subjects legal in their nature. The performance of these exercises is insisted upon by the Faculty, for such practice enables the student to acquire the invaluable faculty of learning "to think whilst on his feet," besides giving him an easy manner of address in public speaking.

EXAMINATIONS.

Examinations on all subjects are held in the presence of a member of the faculty and upon the merits of the answers given to questions asked on these examinations students will be graded.

DEGREES.

The degree of Bachelor of Laws will be conferred upon all students who have passed an examination on each of the subjects embraced in the course, and have attained the average standard grade of proficiency.

The degree of Doctor of Common Law will be conferred upon any graduate of this school or any other law school of equal standing, upon the satisfactory completion of a special course of studies upon subjects to be selected by the Faculty.

CLASS HONORS.

Honorable competition is the life of all enterprise; therefore, we confer the following evidences of distinction: Upon the student attaining the highest average grade shall be conferred the distinction of first honor man of his class; the one attaining the next highest, the second honor man; and the one making the next highest, the third honor man.

The Faculty authorize the selection of three orators to deliver orations at the Commencement exercises, as follows: The Senior Class, one; the Junior Class, one; and the Goar Lyceum, one.

PROFESSIONAL ETHICS.

While endeavoring to impart a knowledge of the fundamental principles of law, the subject of professional ethics will be given special attention and its demands constantly impressed upon the minds of the students as indispensable to the attainment of an honorable and successful career as a lawyer.

On this subject we quote the following from an address delivered to the law students of this school by the Hon. William J. Bryan:

"Yours is a great profession, and yours is a great opportunity, and this is the greatest age in which men could live. Your minds are trained to do great things. Let your training be at the service of your country. Let your own self-respect, your own sense of honor, be more dear to you than any fee that can be offered you or any prominence that can be promised you. If you ask me how a young man can get rich in a day, I can not tell you. If you ask me how he can make a fortune in a year, I do not know. But I will say this: If you will locate in any community and for twenty-five years live an upright life, an industrious life, a helpful life, you will make friends, and you will fasten them to you by hooks of steel; and the chances are many to one that, before a quarter of a century has elapsed, those who know you and have learned to trust you will turn to you and ask you to stand for them, to speak for them, to act for them in im-

portant matters. Thus you will secure that which will be worth more to you than money; worth more to you than any prominence that could come to you at the bar. You will have the consciousness of knowing that you have performed your duty. And unless the communities in which you live are different from any that I know, you will be selected as an example and illustration of what is best in mankind and called to situations which demand a brain trained to see, to measure and to comprehend, and back of it a purpose to direct."

ADMISSION TO THE BAR.

By an act of the Legislature all graduates of the Law Department of the University of this State are admitted to the practice of law in the Supreme Court and all inferior courts of the State without the requirement of an examination.

TUITION AND EXPENSES.

Tuition, Junior Course, payable on entrance	$75.00
Tuition, Senior Course, payable on entrance	75.00
Course leading to degree of D. C. L.	50.00
Board and lodging, per month	$15.00 to 20.00
Diploma	5.00

Text-books can be procured with students' discount.
No library or society fees are required of students.
Fall term opens the third Monday of September.
All communications should be addressed to the secretary,

T. N. ROBERTSON,
State Bank Building, Little Rock, Ark.

THE BRANCH NORMAL COLLEGE

Pine Bluff.

FREDERICK THOMAS VENEGAR, PRINCIPAL,
Pedagogy and Civil Government.

J. G. ISH, JR.,
Mathematics and Agriculture.

CHRISTINA RAMBO,
Music and Language.

ERNESTINE COPELAND,
Dressmaking.

IRENE V. COLEMAN,
English.

WILLIAM STEPHEN HARRIS,
Superintendent.

JAMES LINCOLN ROSS,
Machine Shop and Forge.

HAL M. TAYLOR,
History and Agriculture.

A. R. REEVES,
Mathematics and Agriculture.

NELLIE POTTS,
Millinery, Drawing and Geography.

GENERAL STATEMENT.

The Branch Normal College is a division of the University of Arkansas, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the State. Tuition is made free to all appointees, the only requirements for admission being suitable age and qualification, appointment by one of the county judges, and the payment of the matriculation fee of five dollars. Other students pay in addition one dollar per month in advance.

EQUIPMENT.

The college property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County. A handsome and comfortable school building, a dormitory for girls, and manual training shops, containing as complete an equipment as can be found in any similar shops of the South.

REQUIREMENTS FOR ADMISSION.

Candidates nust be at least sixteen, if young men, and fourteen, if young women; and must pass satisfactory examinations in arithemtic, English grammar, geography and United States history.

APPOINTMENT OF BENEFICIARIES.

By the laws of the State, the appointment of students to the Branch Normal College in numbers from each county in the State is the same as to the parent University at Fayetteville. The power is vested in the county courts, but any vacancies occurring during the vacations of the court shall be filled by the judge of the county court.

All students thus appointed are entitled to four years' free tuition upon the payment of five dollars' matriculation fee in advance at the time of entering the institution.

These appointments are not transferable, and students holding them must be very careful that their conduct is not such as will lead to their forfeiture; and it may also be stated that the principal reserves the right to declare forfeited the appointments of those students who are not present at the opening of the autumn term.

Students planning to enter the college should go to their county judges for appointments, which, if received, must be brought to the college. Blanks for appointments may be secured by addressing Principal F. T. Venegar, Pine Bluff, Ark.

NORMAL DEPARTMENT.

The college offers a good course of training for those who plan to become teachers. More and more the aim will be to give scientific instruction in the matter of teaching the branches of public schools. Arrangements have been made with the superin-

tendent of the Pine Bluff public schools by which the student-teachers at this college may inspect the school system in actual operation. Candidates completing the work of this department will be granted the certificate of Licentiate of Instruction (L. I.). Applicants must pass a satisfactory examination in the ordinary English branches to be able to enter the school.

CLASSICAL DEPARTMENT.

Candidates completing this course will be granted the degree of Bachelor of Arts (B. A.), but no candidate failing to write and submit an original thesis to the teacher of English will be given this degree. The subject of thesis must be selected in December of the Senior year.

THE MECHANIC ARTS DEPARTMENT.

This department offers a splendid opportunity to young colored men to become skilled blacksmiths, machinists, engineers and firemen. The mechanic arts course and the manual training normal course are strong combinations of shop work and literary training. It is hoped that these courses will from time to time attract young men who desire to fit themselves for higher usefulness by preparing for the pursuit of those occupations for which there is a strong demand. In addition to these there is offered a course in woodworking, which comprises cabinet making, pattern making and carpentry.

DEPARTMENT OF DRESSMAKING.

Young women are here given an opportunity to learn plain sewing, crocheting and art needle work. There is a fine outfit of sewing machines and other requisites for doing the work planned by this department.

TYPEWRITING AND STENOGRAPHY.

These subjects are taught one hour each day. Shorthand classes will be formed whenever a sufficient number of students desire to pursue this study.

MILITARY DRILL.

The young men of the college have been organized into a battalion of cadets to promote habits of neatness, order and

punctuality, and to develop an ennobling self-control in every young man connected with the school.

Under the military system thus established, it is aimed to exercise that control of the cadets which is so essential to easy and proper discipline. All young men are subject to the drill regulations.

PHYSICAL EXERCISE.

An athletic association for the purpose of fostering clean athletics and at the same time giving healthful exersise, has been organized under the direction of a member of the faculty, who will see that no excesses are indulged in, and that sports do not interfere with the work of the other departments. Physical culture for young women is also a feature of the college work.

PUBLIC RHETORICALS.

Twice every month public rhetoricals are held in the chapel and all students are subject to assignment on the programs.

RELIGIOUS LIFE.

Prayers are held in the chapel every morning except Saturdays and Sundays. All students are required to attend these devotions. On Sundays, the students who board in the town attend the various churches, while the girls living in the dormitory are taken to the churches of their several choices by members of the faculty.

HOLIDAYS.

The exercises of the college are suspended for one day at Thanksgiving, one on Washington's birthday, and about ten days at Christmas.

LECTURE COURSE.

A course of lectures on live topics is given during the year. These are free, both to the students and to the public.

TRUSTEES' PRIZE.

This prize consists of twenty-five dollars, and is given to "that member of either of the two highest classes who shall during

commencement week pronounce the best oration on any one of a number of subjects to be selected by the Principal."

GENERAL EXERCISES.

The general exercises include reviews of the Sunday-school lessons and of events of the week; also music and drawing. There are regular lessons in vocal music which are given to all students. Students will frequently be required to give public evidence of their skill in using the library intelligently. All exercises must be attended faithfully.

EXPENSES.

For all students, matriculation fee, in advance	$ 5 00
Board, fuel and light, for girls in the dormitory	8 00
Board, fuel and light, in private families	$8.00 to 10 00
Non-beneficiary students, for tuition, per month	1 00

Books at usual retailers' price.

Entrance fees and board bills are payable in advance.

For further information concerning any department of the college, address the Principal,

F. T. VENEGAR,
Pine Bluff, Ark.

REGISTER OF STUDENTS

THE COLLEGE.

Abbreviations—B. A., Bachelor of Arts; B. S. A. Bachelor of Scientific Agriculture; B. M. E., Bachelor of Mechanical Engineering; B. C. E., Bachelor of Civil Engineering; B. E. E., Bachelor of Electrical Engineering; B. Mi. E., Bachelor of Mining Engineering; B. Ch. E., Bachelor of Chemical Engineering; M. A., Master of Arts; M. S., Master of Science; C. E., Civil Engineer; E. E., Electrical Engineer; M. E., Mechanical Engineer; L. I., Licentiate of Instruction.

Graduates.

Name	Course	Home Address	City Address
Dickson, Bruce Wesley	M. A.	Kingsport, Tenn	358 Ark. Ave.
Gaughan, John Emmet	M. S.	Camden	Pi K. A. House
Guynes, Williams Maurice	E. E.	Siloam Springs	703 W. Dickson
Huntley, Phil Conrad	C. E.	Kingston	Sigma Chi House
Thomas, Andrew Jackson	M. A.	Fayetteville	603 Leverette
King, Sarah Ella	M. A.	Waldron	Carnall Hall
Miser, Hugh Dinsmore	M. A.	Fayetteville	Lindell Ave.
Van Valkenburgh, Horace Buell	M. S.	Fayetteville	618 Ida Ave.

Total, 8.

Seniors.

Allen, Benj. Franklin	B. A.	Heber Springs	Dormitory
Armitage, Joseph Gordon	B. A.	Harrison	Dormitory
Austin, Ray Moore	B. A.		Dormitory
Badinelli, Eugene Bard	B. C. E.	Wynne	Dormitory
Blackshare, Lena Ellis	B. A.	Fayetteville	117 W. Lafayette
Blackshare, Jennie Lacy	B. A.	Fayetteville	117 W. Lafayette
Brewer, Mack Hamilton	B. C. E.	Murfreesboro	Dr. D. Y. Thomas
Bryan, Frank	B. Mi. E.	Nelson, Okla.	753 W. Dickson
Buckley, Virgil Brown	B. C. E.	Rogers	Dormitory
Carter, Ollie	B. C. E.	Murfreesboro	Dr. D. Y. Thomas
Caudle, Reuben D.	B. A.	Scottsville	Dormitory
Collins, Alice	B. A.	De Queen	Carnall Hall
Corbell, Oscar Martin	B. A.	Charleston	Dormitory
Cypert, Alfred Boyd	B. A.	Little Rock	Dormitory
Davis, Willie Cleveland	B. A.	Greenwood	Dormitory
Dickinson, John Allen	B. M. E.	Little Rock	S. A. E. House
Flinn, Heber Howard	B. A.	Little Rock	Sigma Nu House
Gates, David Allen, Jr.	B. A.	Little Rock	Sigma Nu House
Green, Thomas Andrew	B. S. A.	Mineral Springs	Dormitory
Harlan, Earl T.	B. C. E	Searcy	Dormitory
Harris, Eutha	B. A.	Fayetteville	305 Washington Ave.
Harrison, Jere F.	B. E. E.	Muskogee, Okla.	Dormitory
Harrison Galloway Caldwell	B. A.	Stamps	814 W. Maple St.
Hays, Ernest Thompson	B. A.	Amity	K. A. House
Highfill, Herbert Holmes	B. A.	Paragould	Dormitory
Hilt, Emma Frances	B. A.	Fayetteville	313 Lafayette Ave.
Hirst, Claude Marvin	B. A.	Weaver	Dormitory
Hogue, Effa Lydia	B. A.	Fayetteville	School St.

Name	Course	Home Address	City Address
Holloway, Claudius V.	B. A.	Lonoke	Dormitory
Hulse, Leonard Ross	B. E. E.	Charleston	Dormitory
Jackson, Thomas A.	B. A.	Hamburg	124 College Ave.
Joiner, Joseph W.	B. A.	Magnolia	Dormitory
Jones, Leah Thompson	B. A.	Newport	Carnall Hall
Jordan, Floss	B. A.	Fayetteville	17 Hill St.
King, Arthur	B. C. E.	Van Buren	Dormitory
Knox, Robert Carr	B. A.	Monticello	312 College Ave.
Laughinghouse, Newman R.	B. E. E.	Forrest City	759 W. Dickson
Lea, Roland Adolphi	B. E. E.	Fayetteville	225 East St.
Lee, Shelley H.	B. C. E.	Valliant, Okla.	Dormitory
Lenker, Leslie E.	B. E. E.	Fayetteville	614 Ida Ave.
Marshall, Irma	B. A.	Mansfield	814 W. Maple St.
Martin, Aubert	B. A.	Warren	703 W. Dickson
Meriwether, Lilbourn Hays	B. A.	Paragould	339 Gregg St.
Miles, Walter Carrigan	B. A.	El Dorado	221 Church St.
Moody, William Franklin	B. E. E.	Rison	Dormitory
Morton, Jennie	B. A.	Fort Smith	Carnall Hall
McCartney, Ruth	B. A.	Fayetteville	340 N. College Ave.
McCoy, Jessie Marie	B. A.	Fayetteville	N. E. of City
McCoy, Bess Cecilia	B. A.	Fayetteville	N. E. of City
McGill, Samuel D.	B. M. E.	Chidester	Dormitory
McHenry, Harvey Watson	B. A.	El Dorado	221 Church St.
McLeod, Laurence S.	B. A.	Smithville	Dormitory
Norris, Claire	B. A.	Hamburg	Carnall Hall
Oneal, Elias Harvey	B. C. E.	Rogers	Dormitory
Paul, Claude Willis	B. E. E.	Fort Smith	820 Douglas
Pearson, Stella Rowena	B. A.	Fayetteville	227 N. School St.
Penix, William Roy	B. A.	Bono	Dormitory
Pettigrew, Lucile	B. A.	Charleston	Carnall Hall
Pettigrew, Ruth	B. A.	Charleston	Carnall Hall
Pitman, May	B. A.	Greenwood	Carnall Hall
Plemmons, Lee Roy	B. C. E.	Oden	Dormitory
Pulliam, Lucy	B. A.	Osceola	Carnall Hall
Pulliam, Nelson	B. A.	Osceola	Dormitory
Purcell, Walter Ray	B. E. E.	Warren	Dormitory
Pye, Ruth E.	B. A.	Little Rock	Carnall Hall
Renick, Ethel Louise	B. A.	Fayetteville	W. W. Renick's
Robertson, James	B. A.	Wynne	K. A. House
Robinson, Agnes	B. A.	Clarksville	Carnall Hall
Rogers, Lee Hugh	B. E. E	Prairie Grove	Dormitory
Sanderlin, David B.	B. A.	Warren	Dormitory
Smith, Lucy B.	B. A.	Fayetteville	14 S. College Ave.
Southworth, George Quinland	B. A.	Fayetteville	
Stallings, John Robert	B. C. E.	Morrilton	5 S. School St.
Stover, Don Alanson	B. E. E.	Rogers	Dormitory
Taff, Nollie Olin	B. A.	Waldron	Dormitory
Takata, Nina Ichitaro	B. E. E.	Kobe, Japan	117 Lafayette
Wade, Alyce Isabelle	B. A.	Rogers	Carnall Hall
Webb, Claude A.	B. C. E.	Manitou, Okla.	Sigma Chi House
Wolf, Guy Walker	B. A.	Aurora, Mo.	Dormitory
Wood, Roy G.	B. S. A.	Fort Smith	K. A. House
Wood, Olive Chism	B. A.	Paris	Carnall Hall
Wood, John Sam	B. A.	Fort Smith	K. A. House
Wood, Corrinna Susan	B. A.	Paris	Carnall Hall
Young, William T. Clint	B. A.	Jonesboro	Dormitory

Total, 84.

Juniors.

Name	Course	Home Address	City Address
Achenbach, Charles Henry	B. E. E.	Alberton, Mont.	Henry Wood's
Anderson, Louis I.	B. A.	Hollywood	Dormitory
Atkinson, Elza Roe	B. A.	Bodcaw	Carnall Hall
Barton, William Harvey	B. A.	Cove	Dormitory
Belts, Florence	B. A.	Fayetteville	Oak Knolle
Blackshare, Lochie Dale	B. A.	Fayetteville	417 Vandeventer St.
Blackshare, Deane	B. A.	Fayetteville	417 Vandeventer St.
Bledsoe, Alva Leona	B. A.	LaCrosse	312 W. Lafayette
Brereton, Blanche	B. A.	Odus, N. Y.	403 N. College Ave.
Brown, Joseph Reed	B. A.	Van Buren	S. A. E. House
Buckley, Samuel Spence	B. C. E.	Rogers	Dormitory
Bullock, Thomas Jackson	B. A.	Dover	Dormitory
Cantrell, Walter Thurman	B. E. E	Bellefonte	Dormitory
Cherry, James Louis	B. S. A.	Paris	Kappa Alpha House
Collins, James Homer	B. S. A.	Fort Smith	Dormitory
Daniel, Lucy May	B. A.	Wilmar	Carnall Hall
Davis, R. Lee	B. A.	Larkin	Main Bldg.
Davis, Rachel	B. A.	Fayetteville	407 W. Dixon St.
Davis, Charles Malcolm	B. A.	Jonesboro	Kappa Sigma House
Deane, Madeline Anderson	B. A.	Fayetteville	R. F. D. No. 2
Deeg, Lena E.	B. A.	Ash Flat	Carnall Hall
Dinwiddie, James Anthony	B. E. E.	Fayetteville	728 W. Maple St.
Dortch, George L.	B. E. E.	Kerr	S. A. E. House
Douglas, William Edwin	B. E. E.	Fayetteville	616 Ida Ave.
Droke, Mary Inez	B. A.	Fayetteville	103 Hill St.
Drover, Walter H.	B. C. E.	McAlister, Okla.	15 N. Duncan St.
Duncan, William Wirt	B. C. E.	Texas City, Texas	Dormitory
Estes, Guy Dan	B. C. E.	Alpena Pass	Dormitory
Evans, William Virgil	B. A.	Benton	339 Gregg St.
Files, F. W.	B. A.	Oak Ridge	Pi K. A. House
Gerig, Frank Austin	B. C. E.	Arkadelphia	339 Gregg St.
Gist, Joseph Elmon	B. A.	Franklin	Dormitory
Gladson, Hazel Wade	B. A.	Fayetteville	820 W. Maple St.
Grieg, Star	B. S. A.	Van Buren	Dormitory
Hamilton, Andrew Claude	B. C. E.	Fayetteville	2 East Dixon St.
Harris, Martha	B. A.	Fayetteville	305 Washington Ave.
Hays, Charles Wentworth	B. E. E.	Fayetteville	101 N. West St.
Highfill, LeRoy	B. S. A.	Fayetteville	221 Church St.
Holtzclaw, Henry	B. A.	Moro	Stanford's
Hunter, Lowell Wilsey	B. M. E.	Little Rock	217 Church St.
Hurst, J. D.	B. A.	Fayetteville	210 Watson Ave.
Jones, Curtis	B. C. E.	Little Rock	Sigma Chi House
Kelton, Fannie	B. A.	Fayetteville	J. H. Kelton's
Kinsworthy, Burton S.	B. A.	Little Rock	2 Mt. Nord
Kirby, A. Crump	B. A.	Harrison	124 College Ave.
Langston, Zora Lee	B. A.	Vineyard	Carnall Hall
Lawson, Lillian	B. A.	Fayetteville	360 Arkansas Ave.
Lucas, Camille Katherine	B. A.	Little Rock	Carnall Hall
Marsh, James Evrard	B. A.	Rosston	Dormitory
Mills, Edmund Fitzgerald	B. A.	Poteau, Okla.	2 Mt. Nord
Millwee, Robt. Miles	B. E. E.	Horatio	Sigma Chi House
Moore, Sam W.	B. C. E.	Kensett	Dormitory
Moore, James G.	B. A.	Sulphur Rock	Dormitory
Morrison, Arthur Brown	B. M. E.	Fayetteville	735 W. Dickson St.
McCarty, Robert Oscar	B. A.	Yellville	Dormitory

Name	Course	Home Address	City Address
McCluer, Robert D.	B. A.	Cane Hall	Block St.
McDowell, J. T.	B. C. E.	Athens	
McLelland, Clarence J.	B. A.	Beirne	Dormitory
McNamara, Irene Patti	B. A.	Fort Smith	D. M. Allen's
Newberry, Jacob Lawrence	B. A.	Arkadelphia	814 W. Maple St.
Nixon, Coy M.	B. A.	Jacksonville	Dormitory
Northum, Ted M.	B. C. E.	Charleston	Dormitory
Oneal, Fred L.	B. E. E.	Rogers	Dormitory
Overton, William Robert	B. C. E.	Greenway	Dormitory
Pemberton, Ralph L.	B. C. E.	Scott	339 Gregg St.
Penn, Moss Edward	B. A.	Marvell	18 E. Dickson St.
Potter, Rissie Lois	B. A.	Stuttgart	Lynden & Douglass
Rhyne, Jake O.	B. A.	Foreman	Dormitory
Richmond, H.	B. M. E.	Fort Smith	K. A. House
Roark, Granville Wade	B. S. C.	Franklin, Ky.	Dr. Broug's
Roberts, Hazel	B. A.	Rogers	Carnall Hall
Rogers, Vivian	B. A.	Kelps Bluff	Carnall Hall
Rye, Vim X.	B. C. E.	Russellville	121 W. Dickson St.
Schalchlin, Geo. Washington	B. E. E.	Mablevale	Dormitory
Scott, Maggie May	B. A.	Helena	Carnall Hall
Shackelford, Charles Edgar	B. A.	Okolona	Dormitory
Shaw, Guy John Samuel	B. E. E.	Hazen	Dormitory
Skinner, Bernice J.	B. A.	Lockesburg	Dormitory
Smith, Ruth Cleveland	B. A.	Springdale	Dormitory
Snell, Edith	B. A.	Harrison	Sutton St.
Stafford, Mattie Susan	B. A.	Gentry	Carnall Hall
Stewart, Leelon Gustive	B. C. E.	Little Rock	Kappa Sigma House
Stockburger, Rob Roy	B. A.	Fayetteville	
Strickland, George	B. S. A.	Atkins	Dormitory
Summers, Beatrice	B. A.	Pocahontas	U. of A. Infirmary
Terry, Ruth	B. A.	Bentonville	324 College Ave.
Thomas, Olin Clancy	B. C. E.	Fayetteville	Dormitory
Tilley, Irene	B. A.	Fayetteville	15 N. Duncan St.
Trent, Ruth	B. A.	Fayetteville	218 Church St.
Veazey, Mildred Virginia	B. A.	Fayetteville	346 Ralston St.
Watkins, George Wesley	B. E. E.	Harrison	Dormitory
Watts Tom S.	B. E. E.	Summers	Dormitory
Williams, Maurice	B. A.	Estes	Dormitory
Williams, Davis Christopher	B. E. E.	Fayetteville	J. C. Williams'
Winfrey, Hugh Lewis	B. A.	Rudy	Dormitory
Wofford, Custer	B. M. E.	De Queen	Dormitory
Wohra, Har Das	B. M. E.	Punjab, India	W. Lafayette
Wood, Roy Winton	B. A.	Junior	224 W. Dixon St.
Wooddy, William Watson	B. A.	Fayetteville	346 St. Charles St.
Wooddy, Lemuel Dale	B. C. E.	Fayetteville	346 St. Charles St.
Woods, H. E.	B. A.	Bentonville	309 W. Center St.
Wright, Kathleen Ledwidge	B. A.	Little Rock	Carnall Hall
Wylie, Colen Newton	B. A.	Prescott	Dormitory

Total, 103.

Sophomores.

Acree, William Frosty	L. I.	Maynard	Dormitory
Adams, Noah	B. E. E.	Fayetteville	W. Center St.
Armitage, Marguerite	L. I.	Harrison	Carnall Hall
Banta, Katherine	B. A.	Springdale	Carnall Hall
Barry, William Taylor	B. C. E.	Fayetteville	College Ave.

Name	Course	Home Address	City Address
Batten, John Tucker	B. A.	Paragould	Dormitory
Beane, Eunice	B. A.	Rogers	Carnall Hall
Berry, Margaret Wheeler	B. A.	Fayetteville	1002 W. Maple St.
Bird, Nellie	B. A.	Waldron	Carnall Hall
Blackmun, Ora	B. A.	Fayetteville	611 Leverett St.
Booth, Farrar Emory	B. C. E.	Searcy	Dormitory
Bowen, Ed	L. I.	Ravenden Springs	Dormitory
Bowers, Milton Drew	B. A.	Pocahontas	Dormitory
Boyd, Frances Leona	B. A.	Fayetteville	520 N. College
Bradley, Harold Herbert	B. E. E.	Fayetteville	727 Douglass St.
Briscoe, Eileen	L. I.	Harrison	Carnall Hall
Browning, John Marvin	B. C. E.	Spring Hill, La.	Dormitory
Bryant, Annie Caroline	L. I.	Boydsville	Carnall Hall
Buerkle, John George	B. M. E.	Stuttgart	620 Ida Ave.
Campbell, George M.	B. E. E.	Hope	303 W. Dickson St.
Carrigan, Annie Marshall	B. A.	Wichita Falls, Tex.	Carnall Hall
Carroll, Hugh A. Dinsmore	L. I.	Valley Springs	Dormitory
Carter, Charles G.	L. I.	Warren	Dormitory
Casey, John Edmond	L. I.	Boxley	Dormitory
Clark, M. D.	B. A.	Malvern	Dormitory
Coventon, John William	B. A.	Oakland	Dormitory
Cook, E. T.	B. C. E.	Fayetteville	17 Rock St.
Cotnam, Thos. Tarleton	B. A.	Little Rock	Sigma Chi House
Crockett, Fred	B. C. E.	Maynard	Dormitory
Croom, Sam Gaston	B. A.	Dardanelle	S. A. E. House
Crumplar, Sam Abner	B. A.	Magnolia	Dormitory
Clark, Robt. T.	B. A.	Fayetteville	309 W. Center St.
Daniel, Fannie	L. I.	Piggott	Mrs. A. E. Blackshare's
Davenport, Bessie Gertrude	B. A.	Hartford	Carnall Hall
Deal, William L.	L. I.	Amity	820 Douglas
Decker, Kivi Kivia Leona	B. A.	Fayetteville	R. F. D. No. 2
Dennis, Ernest Erskin	B. A.	Paragould	Sigma Nu House
Devanney, Hallie	B. A.	Fayetteville	E. Dixon St.
Dotson, Katie Ella	L. I.	Fayetteville	Huntsville Road.
Douglass, Eldridge Parrish	B. C. E.	Helena	Dormitory
Dowdle, Robt. Garland	B. C. E.	Morrilton	121 W. Dickson
Downs, Roy Richard	B. C. E.	Fordyce	Dormitory
Dunn, John Howard	B. E. E.	Fayetteville	2 N. Duncan St.
Dunn, Homer W.	B. E. E.	Fayetteville	2 N. Duncan St.
Earl, Robert David	B. A.	Fayetteville	Kappa Sigma House
Ellis, Elizabeth	L. I.	Fayetteville	Carnall Hall
Ellis, Robert Alvin	L. I.	Hindsville	Dormitory
English, Elbert H.	B. S. A.	Little Rock	Kappa Sigma House
Fletcher, Neill	B. A.	Lonoke	Kappa Sigma House
Funk, Amy Gladys	L. I.	Rogers	Carnall Hall
Gardner, William B.	B. M. E.	Mena	Dormitory
Garvin, Kathleen Morris	L. I.	Harrison	Carnall Hall
Gerard, Adolphus S.	B. E. E.	Prairie Grove	F. B. Childress'
Gilliam, Embra Bailey	B. A.	Bentonville	Dormitory
Gladson, Marion Lena	A. B.	Fayetteville	820 W. Maple St.
Graham, Jesse James	B. E. E.	Springdale	740 W. Maple St.
Gresham, Geo. Gravesend	B. S. C.	Fayetteville	224 N. Church St.
Goss, Alpha Lloyd	B. E. E.	Fayetteville	217 W. Meadow St.
Hackleman, Eugene Logan	B. A.	Coweta, Okla.	Dormitory
Hackleman, Geo. Lewis	B. A.	Coweta, Okla.	Dormitory
Hackworth, Pat D.	B. E. E.	Magnolia	Dormitory
Halbrook, Clarence Bowman	B. M. E.	Choctaw	Dormitory

Name	Course	Home Address	City Address
Hallabaugh, Essie Anah	L. I.	Leslie	Carnall Hall
Hamberg, Edwin Spottswood	B. C. E.	Lonoke	17 Hill St.
Hamilton, Arthur Barr	B. E. E.	Fort Smith	Dormitory
Harville, Archie Watson	B. A.	Argenta	College Ave.
Hazlewood William Guy	B. C. E.	Paragould	Dormitory
Heagler, Arthur Ellis	B. C. E.	Mexico, Mo.	Pi K. A. House
Hemphill, Kate Anderson	L. I.	Richmond	Carnall Hall
Henry, Elbert Augustus	B. A.	Jacksonville	Dormitory
Higgs, Jere Will	B. C. E.	De Queen	Dormitory
Holbrook, Sarah Virginia	L. I.	Rogers	Carnall Hall
Holcombe, Lillian	L. I.	Fayetteville	304 W. Meadow St.
Holt, Harry Cecil	B. C. E.	Little Rock	Ida Ave.
Hon, Mabel Farifax	L. I.	Fort Smith	Carnall Hall
House, Arch Franklin	B. A.	Little Rock	224 W. Dickson St.
Hulen, Edgar Egbert	L. I.	Walnut Ridge	Dormitory
Huntley, Bruce Wilson	B. C. E.	Kingston	Dormitory
Jordan, Mary E.	B. A.	Newman, Illinois	South Mountain St.
Killough, Walter Newton	B. A.	Wynne	Sheppard's
Lake, Edward C.	B. A.	De Queen	Dormitory
Laser, Lucile	B. A.	Clarksville	Carnall Hall
Loomis, Vena Belle	L. I.	Fayetteville	518 Leverett St.
Magness, Perry Green	B. C. E.	Sulphur Rock	Dormitory
Mathews, Miss Jim P.	L. I.	Horatio	Carnall Hall
Merrill, Mabel Irene	L. I.	Haberton	803 W. Dickson St.
Metcalf, Roy James	B. A.	Horatio	Dormitory
Mixon, Harvey	B. A.	Atlanta	Dormitory
Morehead, Maria Louise	B. A.	Hot Springs	Carnall Hall
Moss, Lowell R.	B. A.	Little Rock	346 Arkansas Ave.
McCulley, Icey May	B. A.	Siloam Springs	Mrs. Deaver's
McDearmon, George Wash.	B. C. E.	Weldon	Dormitory
McFarlane, W. D.	B. A.	Greenwood	702 W. Maple St.
McGaugh, Callye	L. I.	Gentry	Carnall Hall
McGehee, Wiley Aloysius	B. S. C.	Little Rock	Kappa Sigma House
McGill, Minto	B. M. E.	Chidester	Dormitory
McGill, Sidney Smith	B. E. E.	Chidester	Dormitory
McMurtrey, Olive	L. I.	Rison	Carnall Hall
Nall, Thos. Nathan	B. A.	Sheridan	Dormitory
Nall, Hazel Teresa	B. A.	Mena	Carnall Hall
Norris, Claude Basil	B. A.	Heavener, Okla.	Dormitory
Parsons, Lloyd Chandler	B. E. E.	Fayetteville	125 E. Dixon St.
Patrick, Katie Clide	L. I.	Paris	803 W. Dixon St.
Payne, Harold B.	B. C. E.	Fort Smith	K. A. House
Payne, Elbert Erle	B. C. E.	Forrest City	Sigma Chi House
Pemberton, Ralph L.	B. C. E.	Scott	339 Gregg St.
Penn, Moss Edward	B. A.	Marvell	18 E. Dixon St.
Pennington, Bess	L. I.	Berryville	
Poff, Albert Alonzo	B. A.	Jonesboro	Dormitory
Porter, Frances Elizabeth	L. I.	Fayetteville	515 W. Maple St.
Potter, Winnie K.	B. A.	Stuttgart	Lynden & Douglas
Potter, Mabel Melissa	B. A.	Stuttgart	Lynden & Douglas
Potter, H. N.	B. A.	Fayetteville	Lynden & Douglas
Potter, Grover Cleveland	B. C. E.	Stuttgart	Lynden & Douglas
Pratt, Margaret Joy	B. A.	Fayetteville	
Price, Oscar G.	B. S. A.	Rector	110 W. Dixon St.
Pyeatt, W. C.	B. C. E.	Prairie Grove	Dormitory
Rankin, Ethel Lee	B. A.	Denver, Colo.	732 W. Maple St.
Ratliff, Emmett M.	B. C. E.	Healing Springs	Dormitory

Name	Course	Home Address	City Address
Reinsch, Oscar Rudolph	B. A.	Stuttgart	620 Ida Ave.
Rice, Edna Julia	L. I.	Siloam Springs	
Robinson, Maude	L. I.	Warren	Carnall Hall
Robinson, Lillian Alice	B. A.	Clarksville	Carnall Hall
Roys, M. B.	B. E. E.	Russellville	Dormitory
Rudolph, Freda Frances	B. A.	Fayetteville	R. F. D. No. 2
Scott, Clifton Hall	B. A.	Tuckerman	Dormitory
Scurlock, Edward Holmes	L. I.	Piggott	Dormitory
Sharp, James Edwin	B. S. C.	Prairie Grove	Dormitory
Shaver, Dorothy	B. A.	Mena	Carnall Hall
Sikes, Fred Lee	B. A.	Rogers	Dormitory
Simpson, Ruth	L. I.	Paragould	158 Hill St.
Snodgrass, George Max	B. E. E.	Prairie Grove	Dormitory
Steinbrenner, Luva May	L. I.	Rogers	Carnall Hall
Still, Frederic John	B. Mi. E.	Buffalo, N. Y.	303 Dixon St.
Swilley, Geo. William	B. C. E.	El Dorado	Dormitory
Titus, Ira Ralph	B. E. E.	Mena	Dormitory
Torrence, James Harold	B. C.	Fayetteville	N. Block St.
Tucker, Moseley Clarence	B. S. A.	Fayetteville	
Turner, Adlai Stevenson	B. C. E.	Lockesburg	Dormitory
Tyson, Harvey Jewell	B. S. A.	Camden	Dormitory
Van Duyn, Charles Alexander	B. A.	Stuttgart	746 Douglas St.
Waller, Mary Ruth	L. I.	Warren	Carnall Hall
Wardlaw, Vivian Mary	L. I.	Warren	Carnall Hall
Weidemeyer, Harry A.	B. S. A.	Fayetteville	Exp. Station
Weigart, George Thurston	B. E. E.	Rector	158 Hill St.
Wiggins, Charlie	L. I.	Hobart	Dormitory
Williams, Guy Ellsworth	L. I.	McKinney, Tex.	A. J. Ballard's
Wilson, Ruth Pearre	L. I.	Schooley	Carnall Hall
Willson, James Freed	B. A.	Ola	K. A. House
Winfrey, John Simon	B. A.	Rudy	Dormitory
Wisenor, William Oliver	B. A.	Farmington	Dormitory
Wolf, Wyatt Horton	B. E. E.	Mountain Home	620 Ida Ave.
Wooddy, Lemuel Dale	B. C. E.	Fayetteville	346 St. Charles St.
Wright, Kathleen L.	L. I.	Little Rock	Carnall Hall
Wyche, Gladys	L. I.	Montgomery, Ala.	Carnall Hall
Young, Leslie Gordon	B. M. E.	Stilwell, Okla.	Dormitory

Total, 155

Freshmen.

Name	Course	Home Address	City Address
Adams, Elizabeth	B. A.	Pine Bluff	Carnall Hall
Adams, Noah	B. E. E.	Fayetteville	W. Center St.
Andrews, Molloy	B. S. A.	Siloam Springs	Dormitory
Armstrong, A. B.	B. C. E.	Wynne	Shepperd's
Arnof, Joseph Moss	B. A.	McCrory	Dormitory
Austin, Judson	B. S. A.	Fayetteville	Mrs Mary Austin's
Autrey, John Lee	B. E. E.	Columbus	Sigma Nu House
Baker, Maybin S.	B. S. A.	Little Rock	Dormitory
Baker, Cecil B.	B. A.	Malvern	Dormitory
Barrett, Euritha	L. I.	Jonesboro	Carnall Hall
Bates, Myrtle	L. I.	Cane Hill	H. E. Morrow's
Bell, Susan Thelma	B. A.	Benton	Carnall Hall
Bell, John Edward	B. A.	Chidester	Dormitory
Benson, Laurence Porter	B. S. A.	Fayetteville	113 W. Lafayette

Name	Course	Home Address	City Address
Bentley, Oliver Kirby	B. E. E.	Morrilton	124 College Ave.
Berry, Eula May	L. I.	Yellville	Dormitory
Berry, Benj. Marvin	B. S. A.	Fayetteville	1002 W. Maple St.
Blackshare, James Osmer	B. A.	Fayetteville	417 Vandeventer St.
Bland, Alice Louise	L. I.	Carthage	Carnall Hall
Bonner, Edmund Covington	B. M. E.	Glenwood	Shepperd's
Brasher, Lawrence Burton	B. E. E.	Dardanelle	Dormitory
Brennen, Dorothy K.	B. A.	Fayetteville	120 Block St.
Briant, James Sidney	B. A.	Hope	Pi K. A. House
Brown, Epps, Jr.	B. E. E.	Des Arc	Dormitory
Browne, Leroy Walton	B. C. E.	Ward	Dormitory
Bunn, Edward Samuel	B. A.	Siloam Springs	Dormitory
Cammack, George Salterberer	B. A.	Portland	Dormitory
Cates, Allen	B. A.	Boles	Dormitory
Childress, Paul Alexander	B. S. A.	Fayetteville	E. Dixon St.
Clark, Lenora Dee	L. I.	Berryville	Carnall Hall
Clegg, John P.	B. S. C.	Siloam Springs	Dormitory
Coleman, Verna Mae	L. I.	Little Rock	Carnall Hall
Cooper, Robert Rennard	B. E. E.	Walnut Ridge	303 W. Dixon St.
Cornelius, Terrell Simeon	B. A.	Hope	Pi K. A. House
Crowley, Frank Arthur	B. C. E.	Canyon	Dormitory
Croxdale, Earl Thomas	B. A.	Fayetteville	703 W. Dixon St.
Daltroff, Lee	B. E. E.	Wynne	Dormitory
Davidson, Elmer Cruse	B. E. E.	Texarkana	Dormitory
Derby, Arthur D.	B. E. E.	Warren	Dormitory
Driver, Marion Winfred	B. A.	Osceola	Leverett & Douglass
Duncan, Edgar Everett	B. S. C.	Waldron	Dormitory
Dunn, William Augustine	B. M. E.	Fort Smith	Dickson St.
Dunn, John Howard	B. E. E.	Fayetteville	2 N. Duncan St.
Dunn, Joseph Clark	B. E. E.	Warren	Dormitory
Dyer, Cyrus Leavitt	B. S. A.	Fayetteville	R. F. D. No. 4
Emerson, Henry Allen	B. A.	Clinton	Dormitory
Farris, R. L.	B. C. E.	Clarksville	224 Church St.
Ferguson, Julius A.	B. M. E.	Fayetteville	223 W. Dixon St.
Forbes, Neil Morton	B. M. E.	Garvin	Dormitory
Forrest, Leland Stanford	B. A.	Siloam Springs	Dormitory
Forwood, Eleanor	B. A.	Rogers	Carnall Hall
Freeman, James Trager	B. S. C.	Hot Springs	Dormitory
Fuller, Willie	B. A.	Fayetteville	300 Center St.
Garrett, Claude Wallace	B. A.	Huntsville	Oriental Hotel
Gerard, Adolphus Simonson	B. E. E.	Prairie Grove	F. B. Childress'
Gibson, Ruth	B. A.	Jonesboro	Dormitory
Gibson, James M.	B. E. E.	Huttig	Dormitory
Gilliam, Surrey Edgar	B. A.	Lockesburg	Dormitory
Green, William Elza	B. S. C.	Little Rock	College Ave.
Green, William Benoit	B. A.	Fayetteville	Block St.
Gregg, Russell Cravens	B. A.	Fayetteville	348 N. College
Gregg, Pansie	L. I.	Fayetteville	325 W. Lafayette St.
Greig, James Kibler	B. A.	Van Buren	Dormitory
Grimes, Odus Earl	B. C. E.	Miami, Texas	Dormitory
Goodson, Harry	L. I.	Fouke	Dormitory
Gordon, James Howell	B. E. E.	Washington, D. C.	W. Maple St.
Guthrie, James Martin	B. S. C.	Prescott	Dormitory
Hale, John J.	B. A.	Bellefonte	
Hall, Willis Legette	B. E. E.	Waldron	405 W. Lafayette
Hamby, Leonard Christopher	B. E. E.	Prescott	Dormitory

Name	Course	Home Address	City Address
Hamer, William Peyton	B. E. E.	Alma	320 W. Maple St.
Hamilton, Edith Eleanor	B. A.	Springdale	Carnall Hall
Harding, Rufus Chester	B. C. E.	Fayetteville	357 Washington Ave.
Harris, Mary Alice	L. I.	Harrison	Carnall Hall
Harvey, Robin	B. A.	Booneville	Carnall Hall
Harvey, Grover Cleveland	B. A.	Springdale	
Hayden, Robert Emmet	B. A.	Foreman	Dormitory
Hedrick, Gideon Evert	B. S. C.	Fayetteville	West of University
Henry, Lee Roy	B. A.	Lake Charles, La.	Sigma Nu House
Henry, DeWitt Clinton	B. M. E.	Chelsea, Okla.	620 Ida Ave.
Herndon, Johnnie	L. I.	Walnut Hill	Carnall Hall
Hervey, Thomas Edward	B. A.	Hope	Pi K. A. House
Hilton, Esther Childs	B. A.	Fayetteville	409 E. Lafayette St.
Hinds, Helene Lois	B. A.	Fayetteville	127 Hill St.
Hirsch, Ralph	B. E. E.	Newport	229 College
Holt, Basil Page	B. E. E.	Little Rock	Ida Ave.
Hopper, Ira Claude	B. A.	Caddo Gap	Dormitory
Hopper, David Claude	B. E. E.	Caddo Gap	Dormitory
Hornberger, Byron Burns	B. A.	Heber Springs	720 Douglass St.
Hoskins, Lois Harley	B. A.	Fayetteville	200 Dickson St.
Hudson, Clarence Sherman	B. A.	Alix	Rev. Kilgore's
Hughes, Jewell Constance	B. A.	Fayetteville	R. F. D. No. 1
Hughes, Annie Irene	L. I.	Fayetteville	R. F. D. No. 1
Humphreys, Smith	B. S. A.	Fort Smith	K. A. House
Humphreys, Frances A.	B. M. E.	Fayetteville	14 E. Lafayette St.
Hurlock, Leslie	B. A.	Siloam Springs	Dormitory
Irby, Nolen Meaders	L. I.	Blue Mountain	17 W. Spring St.
Jamison, Claudine Elizabeth	L. I.	Marion	Carnall Hall
Johnson, Nelle	B. A.	Hackett	314 Scott St.
Jones, Maurice Fuller	B. E. E.	Batesville	Dormitory
Jordan, Ida	L. I.	Hot Springs	Carnall Hall
Jordan, Ettalee	L. I.	Fayetteville	17 Hill St.
Keith, M. N.	B. A.	Malvern	Dormitory
Kennard, Rolfe Powell	B. A.	Fayetteville	417 E. Lafayette
Kennedy, Walter Earle	B. E. E.	Fayetteville	540 Whitam St.
Kimbrough, Ethel	L. I.	Dutch Mills	Ida Ave.
Knerr, Bertha Irene	B. A.	Fayetteville	
Knoch, Elmo Albert	B. C. E.	Fayetteville	402 College Ave.
Lake, John Pinnix	B. A.	De Queen	Dormitory
Lee, Annie Lillian	L. I.	El Dorado	Carnall Hall
Letzig, Frank William	B. Mi. E.	Little Rock	740 W. Maple St.
Leverett, Percy	B. E. E.	Fayetteville	528 Whitam St.
Lilly, Clara Pauline	L. I.	Fayetteville	415 Sutton St.
Lyon, Theo. A.	L. I.	Casa	Dormitory
Magali, Hojn Francis	B. E. E.	Magnolia	Dormitory
Majors, Joseph Ladd	B. A.	Danville	Dormitory
Malpe, Joseph Maurice	B. S. A.	St. Louis, Mo.	Ida Ave.
Mather, Juliette Edla	B. A.	Fayetteville	
Merrill, Mabel Irene	L. I.	Haberton	803 W. Dixon St.
Millwee, Fay Bruce	B. A.	Horatio	Dormitory
Moore, Vaughan Henry	B. C. E.	Fayetteville	J. E. Vaughan's
Moore, Katisue	L. I.	Fayetteville	735 W. Dixon St.
Moore, Graham Belmont	B. A.	Barren Fork	Dormitory
Moss, Mildred Mills	B. A.	Little Rock	Carnall Hall
McCain, William Enoch	B. A.	McCrory	Dormitory
McCormick, Thomas Graeme	B. E. E.	Prairie Grove	Mrs. Tilley's
McCoy, Aileen	B. A.	Fayetteville	N. E. of Town

Name	Course	Home Address	City Address
McCulloch, Richard	B. A.	Little Rock	K. A. House
McFall, Robert	B. C. E.	McCrory	Dormitory
McGill, Walter Greenfield	B. A.	Chidester	Dormitory
McKinney, Ruth	B. A.	Corning	Carnall Hall
Nash, Lilliard Smith	B. E. E.	Jonesboro	Dormitory
Newton, William Kanon	B. A.	Russellville	Dormitory
Nichols, Dunward Belman	B. E. E.	Wabash	Dormitory
Nichols, Pattie	B. A.	Roff, Okla.	Carnall Hall
Norwood, Frank Anderson	B. A.	Little Rock	College Ave.
Oliver, James William	L. I.	Eureka Springs	121 School St.
Oliver, Jennie Redman	B. A.	Corning	Carnall Hall
Overholt, David Rollin, Jr.	L. I.	Fayetteville	
Park, Ora Agnes	L. I.	Pocahontas	340 Arkansas Ave.
Park, Effie Pauline	L. I.	Pocahontas	340 Arkansas Ave.
Pettigrew, Helen Lyle	B. A.	Charleston	Carnall Hall
Phillips, Bess	B. A.	Fayetteville	N. Highland Ave.
Phillips, Patsy Edith	L. I.	Checotah, Okla.	600 Whitam St.
Prettyman, Hazel Douglas	B. A.	Fort Smith	Carnall Hall
Price, Marion Lucile	B. A.	Fayetteville	429 Washington Ave.
Pyeatt, Clara	L. I.	Cane Hill	Mrs M. H. White's
Pyeatt, Elizabeth Lois	L. I.	Cane Hill	Mrs. M. H. White's
Quick, William Cecil	B. S. A.	Springdale	Dormitory
Rabon, Edward Ray	B. A.	Stigler, Okla.	620 Ida Ave.
Rayborn, Leona Lucile	B. A.	Dermott	Carnall Hall
Raleigh, James A.	B. S. A.	Little Rock	Ida Ave.
Reed, James Franklin	L. I.	Springdale	Dormitory
Robinson, Henry Evalyn	B. A.	Jonesboro	Carnall Hall
Ross, Eric Mansfield	B. S. C.	Grapevine	Dormitory
deRoulhac, George	B. M. E.	Fayetteville	763 W. Dixon St.
Rouw, Hugh Ravelle	B. A.	Van Buren	Dormitory
Rudell, Jude E.	B. E. E.	Hackett	314 Scott St.
Sample, Leslie Allen	B. M. E.	Grand Cane	Dormitory
Schaaf, Kenneth A.	B. E. E.	Waverly	Dormitory
Schoolfield, John Lafayette	B. C. E.	Fayetteville	339 Washington Ave.
Seamans, Phene	L. I.	Crossett	Carnall Hall
Sedwick, Herbert Payne	B. E. E.	Fayetteville	342 St. Charles St.
Schaer, Junior	B. E. E.	Little Rock	312 College Ave.
Sheffield, Newton Ernest	B. A.	Nashville	820 Douglas St.
Sidney, Soluin	B. A.	De Queen	Dormitory
Silliman, William Edward	B. A.	Locust Bayou	Dormitory
Smith, Euclid Theodore	B. A.	Amity	820 Douglas St.
Smith, Will Lentz	B. A.	Fayetteville	640 Leverett St.
Stark, Calvin Austin	B. A.	Searcy	Dormitory
Stearns, Harry	B. S. A.	Fayetteville	
Stelzner, Julius Francis	B. E. E.	Anadarko, Okla.	231 College Ave.
Steward, Reed	B. C. E.	Three Creeks	Dormitory
Stevenson, Harold S.	B. S. A.	Dardanelle	Dormitory
Stevenson, Earle Upshaw	B. A.	Marianna	753 W. Dixon St.
Stone, Marion	B. A.	Fayetteville	357 College Ave.
Stuckey, Helen	B. A.	Johnson	Carnall Hall
Stuart, Dee Ward	B. A.	Texarkana.	
Sutton, Margaret	B. A.	Fayetteville	121 W. Dixon St.
Thompson, Lilburn E.	B. C. E.	Valley Springs	Mrs. C. A. Ladd's
Thompson, Jonah I.	L. I.	Leonard	Washington
Trent, Harry	B. A.	Bentonville	College Ave.
Upchurch, Earle F.	L. I.	Hackett	314 Scott St.
Vadakin, James Hurlburt	B. S. C.	Forrest City	Dormitory

Name	Course	Home Address	City Address
Valentine, Paul	B. E. E.	Charleston	Dormitory
Walker, Burton	B. M. E.	Richmond	W. Dixon St.
Walls, Louise	B. A.	Holly Grove	Carnall Hall
Walton, Charles Roscoe	B. A.	Benton	620 Ida Ave.
Warren, Chas. J.	B. C. E.	Black Rock	Dormitory
Watson, Damon	B. A.	N. McAlister, Okla.	Frank Watson's
Watters, Robert Franklin	B. A.	Havana	Dormitory
Wiggins, Sam B.	B. A.	Fayetteville	113 Lafayette Ave.
Williams, Ivan Bunger	B. E. E.	Fayetteville	346 N. West St.
Williams, Ruth	L. I.	Fayetteville	820 Douglas St.
Williams, Paul M.	B. A.	Russellville	121 W. Dixon St.
Williams, Ben Robertson	B. A.	Jacksonport	Dormitory
Williamson, John F.	B. A.	De Queen	Dormitory
Willis, Robert Buehler	B. A.	Marianna	Dormitory
Wilson, Roy Gilbert	B. C.	Alpena Pass	Dormitory
Wilson, Louis Edmund	B. S. A.	Dardanelle	18 E. Dixon St.
Wilson, Donald Deane	B. A.	Fayetteville	522 W. Maple St.
Winfree, Oscar Miers	B. A.	McCrory	Dormitory
Woolfolk, Robert Lee, Jr.	B. A.	Dermott	Dormitory
Womack, Harry E.	B. A.	Hugo, Okla.	Mrs. Neelly's
Wood, James Roscoe	B. A.	Ashdown	Dormitory
Wooddy, Sue	B. A.	Fayetteville	346 St. Charles St.
Yarbrough, William Jenkins	B. A.	Grays	Dormitory
Yates, Tennie Archer	B. A.	Booneville	Carnall Hall
Yoes, Gilliam Claude	B. A.	Alma	W. O. Britt's

Total, 209

Special.

Name	Home Address	City Address
Benton, Sidney Wright	Fayetteville	109 N. Block St.
Bethel, Claude	Bates	Dormitory
Blakeley, J. T.	Clarksville	224 Church St.
Bowen, Howard Russell	Bentonville	Sigma Chi House
Bradford, Wylie Ernest	Haynes	213 Church St.
Bryan, Leland S.	Fayetteville	217 E. Sutton St.
Burrow, David Hiram	Morrilton	K. A. House
Campbell, Joe	Fayetteville	E. Dixon St.
Carl, Floyd Conkling	Siloam Springs	612 W. Dixon St.
Carnes, Grover Clow	DeWitt	Dormitory
Castleberry, Edmon Ealey	Salem	Dormitory
Cole, Chas. Wynne	Alma	320 Maple St.
Collins, Albert James	Foreman	Dormitory
Croxdale, Everett Woods	Fayetteville	703 W. Dixon St.
Davis, Charles Malcolm	Jonesboro	Kappa Sigma House
Deane, Geo. F. Jr.	Fayetteville	R. F. D. No. 2
Danner John	Fayetteville	South of Town
Dickinson, Raymond V.	Horatio	Dormitory
Dillihunty, Edwin Porter	Lockesburg	Dormitory
Emerson, Harry Allen	Clinton	Dormitory
Forbes, Neil Morton	Garvin	Dormitory
Glass, Buel Henry	McAlester, Okla.	Dormitory
Greenfield, Walter	Rogers	Dormitory
Grimes, Odus Earl	Miami, Texas	Dormitory
Hamer, William Peyton	Alma	320 W. Maple St.
Hinton, Leonard Ester	Stamps	213 Church St.
Ingram, Fred J.	Little Rock	Ida Ave.

Name	Home Address	City Address
Jackson, Allen Ray	Paragould	Dormitory
Johnson, Joseph Peacock	Hot Springs	Dormitory
Jones, Maurice Fuller	Batesville	Dormitory
Kirby, Elton Westbrook	Paragould	Dormitory
Knott, James Coalman	Bentonville	309 W. Center St.
Lindsey, Vol Thomason	Bentonville	S. A. E. House
Love, Mathew Locke	Richmond	703 Dixon St.
May, Russell Varnelle	Little Rock	Sigma Nu House
Mayes, Ruth	Fort Smith	Carnall Hall
Meyer, Fred Clause	Lowell	
Millwee, Fay Bruce	Horatio	Dormitory
Mull, Thomas, Jr.	Holly Grove	W. Dixon St.
McCain, William Enoch	McCrory	Dormitory
McNerney, Blanche Kathryn	Fayetteville	Mount Nord
McPherson, Ralph Russell	Stuttgart	Dormitory
Nash, Fred H.	Farmington	
Nash, Lilliard Smith	Jonesboro	Dormitory
Norcott, Arnet	Little Rock	Ida Ave.
Phillips, H. Elbert	Gravette	Dormitory
Pulley, Ellsworth Conley	Fayetteville	517 N. College Ave.
Rossner, Earl	Little Rock	Sigma Chi House
Shelton, Martin Lynne.	Fayetteville	H. K. Shelton's
Smith, Earl Webster	Fayetteville	N. College Ave.
Spangler, Charles Russell	Clinton	Dormitory
Stearns, Harvy	Fayetteville	
Stout, Samuel Rodman	Rogers	Dormitory
Thomas, Clifton B.	Fayetteville	603 Leverett St.
Thompson, Mills Gilmore	Gilmore	17 Hill St.
Vickers, H. A.	Fayetteville	
Wade, Hopkins	El Dorado	121 W. Dixon St.
Waldron, Richard C.	Black Rock	Dormitory
Walls, Shep R.	Fayetteville	Kappa Sigma House
Ward, Earl Patterson	Memphis, Tenn.	A. U. Greenhouse
Waugh, Charles Merriweather	Rothville, Mo.	Mrs. Allison's
Williamson, John F.	De Queen	Dormitory
Wright, Horace Jewell	Hope	
Winfree, Oscar Miers	McCrory	Dormitory
Yoes, Gilliam Claude	Alma	W. O. Dritt's
		Total, 65

THE CONSERVATORY OF MUSIC AND ART.

Name	Address	Name	Address
Acree, W. F.		Collins, Nellie	De Queen
Buerkle, Minnie	Stuttgart	Cochran, Mary	
Brennan, Dorothy	Fayetteville	Davis, Brickell	El Paso
Buchanon, Henrietta	Fayetteville	Davis, R. D.	
Bell, Fay	Benton	Decker, K.	
Bailey, Paul		Ellis, Mrs. E.	Fayetteville
Barrett, Grace	Hazen	Garrett, Bertha	Fayetteville
Blair, Florence	Fayetteville	Graves, Hester	Bentonville
Bird, Nellie	Fayetteville	Graham, Esther	Hot Springs
Briscoe, Aileen		Grimstead, Montana	Sapulpa, Okla
Banta, Kath		Gann, Irma	Benton
Coffee, Jewel	Fayetteville	Galloway, M.	
Cox, Nettie	Paragould	Hall, Mary	Fayetteville

Name	Home Address	Name	Home Address
Harris, Ruth	Monticello	Noll, T. N.	
Hoyt, Blanche	Galesburg, Ill.	Oates, Eunice	Fayetteville
Harris, Eutha	Fayetteville	Oxford, May	Fayetteville
Hall, Virginia		Parks, Louise	
Hughes, Verda	Fayetteville	Porter, Florence	Little Rock
Harvey, Robin		Prettyman, Hazel	Little Rock
Howitt, Sadie	Fayetteville	Pulver, Florence	Fayetteville
Howitt, Eunice	Fayetteville	Pulver, E.	Fayetteville
Hay, Elise	Dallas, Tex.	Pratt, Joy	Fayetteville
Hight, Alice	Fayetteville	Quinn, Majel	
Hogue, Effa	Fayetteville	Rayborn, Louise	Dermott
Hon, Mable		Terry, Chellie	Marvell
Izard, Letha	Mena	Robinson, Alice	
Jones, Ellen	Newport	Ramsey, Exie	Hamburg
Jacks, Raymond	Marianna	Soule, Gertrude	
Knerr, I.		Somers, B.	
Leverett, Madge	Fayetteville	Schaaf, Kenneth	
Lucas, Julia	Fayetteville	Simpson, Julia	Fayetteville
Leighton, Dorothy	Fayetteville	Stewart, Jessie	St. Paul
Langston, L.		Skaggs, Cuba	Fayetteville
Morton, Wimifred	Fayetteville	Trimble, Susie	Harrison
Moore, Lyla	Fayetteville	Trent, Ruth	Fayetteville
McCloy, Robin	Monticello	Wasson, Artie	Westville, Okla
McIlroy, Cornelia	Fayetteville	Ward, Alice	Marvell
Murphey, Nan	Little Rock	Ward, Lucy	Memphis, Tenn.
Murphey, Jeffie		Williams, Josephine	Fayetteville
Mitchell, Urcy	Havana	Walls, Louise	Holly Grove
Moore, Katisue	Fayetteville	Wilson, Mary	Fayetteville
Martin, Alma	Warren	Wade, Jessie	Fayetteville
Neelley, Hally	Fayetteville	Watson, Damon	
Norbury, Victoria	Fayetteville		Total, 88

THE MEDICAL SCHOOL.

Senior Class.

Bollinger, I. W.	Fletcher, M. A.	Neal, J. Hal
Baker, F. P.	Gates, S. M.	Pate, J. N.
Bond, S. P.	Higgins, H. A	Plumlee, J. L.
Bates, C. A.	Holt, C. Z.	Riley, J. L.
Barger, M. I.	Halsted, A. B.	Rowland, Rosa B.
Cutting, Herwald	Hudgins, J. J.	Rushing, F. E.
Center, W. B.	Hutchins, W. P.	Robertson, L. D.
Colquitt, Sam W.	Jewell, V. L.	Slaughter, J. W.
Cook, J. C.	Jenkins, W. P.	Tabor, G. E.
Cooper, B.	Lumsden, C. A.	Taylor, J. E. M.
Cox, W. E.	Melton, A. S.	Underwood, E. O.
Corney, R. B.	Matthews, J. T.	Utley, F. E.
Day, E. O.	Morris, R. D.	Wood, G. C.
Deatherage, W. N.	McKinney, G. Y.	Ward, R. H.
Daly, M. G.	Moore, W. P.	Wigley, J. A.
England, J. F.	Middleton, B. C.	Williams, H. F.
Freemeyer, W. N.	Moreland, B. F.	Wood, J. T.
Fletcher, Geo. B.	Manley, R. N.	Total, 53

Junior Class.

Allbright, Sam J.
Barham, J. H.
Browning, E. R.
Brown, J. R.
Baker, J. H.
Boyd, F. M.
Bruce, G. C.
Blankenship, A. G.
Bailey, J. D.
Crockett, W. H.
Capel, C. B.
Drennen, S. A.
Dickens, G. W.
Daugherty, G.W.
Gwaltney, B.
Eubanks, R. M.
Guthrey, J. E.
Harris, Bun
Henry, H. B.
Hodges, J. D.
Harper, T. P.
Inman, Bruce
Jones, G. W.
Linton, A. C.
Moore, G. C.
Murphy, Pat.
Mitchell, J. H.
McPherson, V. L.
Owens, M. W.
Oates, Chas. E.
Pace, Jos.
Poe, J. F.
Pool, T. J.
Scott, Homer
Sadler, W. L.
Volmer, John
Waltrip, J. R.
Weaver, R. E.
Weaver, J. F. B.

Total, 39

Sophomore Class.

Baker C. J.
Buchanan, F. R.
Bryan, Cecil
Bollinger, E. W.
Castleberry, F. L.
Chearis, D. T.
Callen, C. B.
Davis, Edwin
DeClark, W. H.
Drummond, C. S.
Hill, T. B.
Hutto, J. A.
Hancock, W. G.
Hall, Chas. W.
Hudgins, A. H.
Johnson, J. E.
Jobe, A. L.
Lee, D. C.
Lewis, F. G.
McCormack, G. A.
Owens, M. B.
Prothro, E. W.
Poynor, W. H.
Sciaroni, Geo. H.
Saylors, G. S.
Thompson, S. A.
Whittington, A. C.
Williams, C. A.

Total, 28

Freshman Class.

Blocker, H. B.
Bryant, R. H.
Barker, N. L.
Bremer, J. P.
Carpenter, E. L.
Hinkle, S. B.
Humphrey, Lincoln
Jones, Paul
King, Ed.
Matthews, W. M.
Parmley, L. V.
Riegler, N. W.
Rose, W. D.
Roe, C. E.
Sherrill, Rufus
Taylor, J. P.
Troupe, C. A.
Tankersly, Grace
Thompson, H. B.
Watson, Fred
Wright, Pat.
Wagley, P. V.

Total, 22

THE LAW SCHOOL.

Junior Class.

Britt, S. Y.
Brown, H. K.
Buchanan, H. C.
Carter, R. D.
Crow, W. A.
Davis, H. P.
Dent, S. M.
Dodd, W. A.
Donnell, I. B.
Ehrman, S. L.
Hadfield, H. P.
Harrod, L. B.
Hoskins, John D.
Hudson, R. S.
Huie, J. C.
Kincannon, W. L.
Knott, G. B.
Langley, I. C.
Miller, Chas. L.
Murry, J. C.
McCain, W. J.
McKay, A.
McPhetridge, J.
Nichols, A. G.
Parham, E. R.
Phillip, David I.
Pierce, J. H.
Rowe, Style P.
Satterfield, Fred L.
Seaman, J. A.
Southmayde, L. H.
Stanley, E. A.
Sutton, L. C.
Thompson, J. H.
Voght, Kenneth E.
Waggoner, W. J.
Wimmer, G. H.
Young, H. R.

Total, 38

Senior Class.

Adams, S. W.
Baxter, John
Bowers, Verne
Bratton, Guy
Brooks, J. C.
Brooks, John S.
Cook, T. L.
Ford, D. L.
Gentry, U. A.
Goodrum, J. C.
Hart, Hugh D.
Hollenberg, F. B. T.
Hutchins, Louis E.
Hutchins, R. M.
Jackson, W. D.
Johnson, C. L.
Jones, Gus W.
Lanier, E. L.
McCaskill, O. W.
Nealy I. Glenn
Neunlist, Rollie E.
Patton, A. P.
Rogers, Thomas H.
Rose, Arthur H.
Rose, John W.
Stacey, M. L.
Timms, Allison
Titus, I. L.
Thomas, Arthur
Vance, T. B.
Wallace, J. H.
Williams, R. B.
Woods, John Powell

Total, 33

Summary of Students.

Graduates	8
Seniors	84
Juniors	103
Sophomores	155
Freshmen	209
Special students	65
Students in the Conservatory	88
Total number of Collegiate and Conservatory students	712
Unclassified	12
Students in summer session	218
Total number of students at Fayetteville	942
Students in the Medical School (Little Rock)	142
Students in the Law School (Little Rock)	71
Students in the Branch Normal College (Pine Bluff)	125
Total number of students in the University of Arkansas	1280

DEGREES

On Commencement Day, June 7, 1911, degrees and certificates were conferred by the trustees of the University of Arkansas as follows:

Master of Arts.

Marvin Josephine Droke.

Mechanical Engineer.

Benjamin F. Dickinson.
Walter Quincy Williams.

Electrical Engineer.

Paul L. Mardis.
Felix Sloan White.

Civil Engineer.

N. D. Mitchell.

Bachelor of Arts.

Abbott, T. O.
Alphin, J. H.
Ashley, J. C.
Bateman, J. T.
Beane, Ada Louise.
Black, L. G.
Blackford, Mary
Bradford, C. G.
Brewer, O. C.
Carden, W. M.
Carruth, R. H.
Carter, Bess
Couch, Nelle S.
Creekmore, S. W.
Dorough, W. T.
Dyer, Reba
Ellis, R. S.
Eoff, Dennie J.
Etheridge, Y. W.
Feldt, Louise
Goodwin, William Lynne
Hall, M. G.
Hatchett, M. P.
Highfill, R. D.
Hon, Lucy
Hughes, J. L.
Hutchins, R. M.
Hyatt, C. L.
King, Harry
Knox, Virginia
Lee, R. B.
Manning, Gladys
Martin, H. B.
McCartney, Isabelle
Metcalf, C. H.
Morris, B. B.
Prall, Beatrice
Savage, D. L.
Shane, J. C.
Sheffield, H. C.
Sly, A. G.
Rorie, G. C.
Smith, R. D.
Thomas, A. J.
Thomas, Maud
Thompson, Ethel M.
Vaughan, Rosebud
Veazey, Julia
Warner, C. R.
Webb, Willa Louise
Wheeler, S. B.
Wilson, T. C.
Wright, Enda
Yocum, H. C.

Bachelor of Civil Engineering.

Bennett, Fred
Brown, C. J.
Humphreys, H. H.
Mitchell, George W.
Philpot, E. M.
Sedwick, B. F.
Shipley, R. E.
Tovey, E. C.
Willson, T. R.

Bachelor of Electrical Engineering.

Bagley, H. S.
Chandler, P. E.
Cole, L. R.
Deberry, H. D.
Douglas, C. H.
Rye, W. G.
Smith, M. F.

Bachelor of Mechanical Engineering.

Baxendale, John
Barton, H. W.

Bachelor of Mining Engineering.

Gough, Ivor

Licentiate of Instruction.

Blackshare, Lena
Blackford, Mary
Blackshare, Lochie
Catts, Mary
Coward, Lilla Belle
Carter, Bess
Dillard, Minnie
Dyer, Reba
Green, T. A.
Harris, Fannie
Hilt, Emma
Hays, Elizabeth
Harrington, Marie
Langston, Zora
Loomis, Lelia
McCoy, Bess
McCoy, Jess
McDearmon, Nora
Orton, Myrtle
Smith, Maud
Veazey, Mildred
Webb, Louise
Wolf, Bess

Short Course in Electrical Engineering.

Pendleton, C. M.

COLLEGIATE ALUMNI OF THE UNIVERSITY OF ARKANSAS.

Class of 1875.

Name.	Degree.	Occupation.	Address.
*Botefur, Laura D.	B. A.		
Carson, Annie E.	B. A.	Mrs. Jno. Knight	Jonesboro, Ark.
Carson, Augusta	B. A.	Mrs. T. W Cline	
Davis, Lizzie	B. A.	Mrs. R. C. Brown	
McKinney, C. S.	B. A.	Ferguson & McKinney	St. Louis, Mo.
Moore, Lucy L.	B. A.	Mrs. J. G. Ross	Fayetteville, Ark.
Putnam, Anna	M. A.	Mrs. C. M. King	Fayetteville, Ark.

Class of 1876.

Barnett, Nettie	B. L.	Mrs. C. P. Boles	Fayetteville, Ark.
*Gordon, Belle E.	B. A.		
*Gregg, A. W.	B. A.		
Harris, Agnes	B. A.	Mrs. W. T. Johnson	Kansas City, Mo.
Harris, Sarah F.	B. A.	Mrs. C. P. Conrad	
Johnson, A. P.	B. A.		
Neal, W. H.	B. L.		
Taylor, E. L.	B. L.	Lawyer	Spokane, Wash.
Waggener, Annie	B. L.	Mrs. J. L. Marques	Summers, Ark.
Waggener, W. J.	B. A.		
	M. A. '85		

Class of 1877.

Borden, Alice	B. A.	Mrs. J. B. Strouse	Louisville, Ky.
Carden, E. B.	B. L.		
*Carnall, Ella	Ph. M.		
Hawkins, J. T.	B. LL.	Physician	Mt. Holly, Ark.
Jennings, E.	B. A.		Pittsburg, Kan.
Massie, J. C.	B. A.		Fayetteville, Ark.
Mellet, W. M.	B. L.	Attorney	Muskogee, Okla.
Patton, Alice	B. L.		
	B. A. '78		
	M. A. '79	Teacher	Fayetteville, Ark.
*Simms, W. D.	B. L.		
Walker, J. V.	B. A.	Lawyer	Fayetteville, Ark.
Watson, C. A.	B. A.	Teacher	Fayetteville, Ark.

Class of 1878.

Blakeley, Leonora	B. A.	Mrs. H. M. Hudgins	Fayetteville, Ark.
Gregg, A. S.	B. A.	Physician	Fayetteville, Ark.
Pettigrew, T. A.	B. A.		
	M. A.	Lawyer	Charleston, Ark.
*Reed, Maggie	B. A.		
Sutton, W. S.	B. A.		
	M. A. '84		
	L.L. D. '05	Prof. Ed., Univ. Tex.	Austin, Tex.

*Deceased.

Class of 1879.

Name.	Degree.	Occupation.	Address.
Butler, H. M.	B. A.		
Floyd, J. C.	B. A.	Member of Congress	Yellville, Ark.
Harrod, J. H.	B. A.	Lawyer	Little Rock, Ark.
Marrs, S. E.	B. A.	Editor Democrat	Fayetteville, Ark.
Marshall, J. C.	B. A.		
	M. A.	Lawyer	Little Rock, Ark.
Teague, C. V.	B. A.	Lawyer	Hot Springs, Ark.
Wood, C. D.	B. A.	Assoc. Justice Supreme Court	Little Rock, Ark.

Class of 1880.

Droke, G. W.	A. M.	Prof. Math., Univ. Ark.	Fayetteville, Ark.
*Johnson, T. M.	B. LL.		
King, Artelle	B. LL.	Mrs. J. C. Belt	
Kitchens, T. B.	B. A.		
	M. A.	Sec. Paragould Ins. Co.	Paragould, Ark.
Langford, W. H.	B. A.	Banker	Pine Bluff, Ark.
Patton, Mattie	B. LL.	Mrs. Chas. Jenkins	
*Ross, T. C.	B. A.		
Russell, L.	B. A.		
Tillman, J. N.	B. LL.	Pres., Univ. Ark.	Fayetteville, Ark.
Williams, Naomi	B. LL.		
	M. A.	Private Teacher	Fayetteville, Ark.

Class of 1881.

Ellis, F. W.	B. A.	Lieut. U. S. A., Ret.	Fayetteville, Ark.
Moore, B. L.	B. A.	Teacher	Warren, Ark.
Moore, J. I.	B. A.	Lawyer	Helena, Ark.
Reed, Lina X.	B. A.	Teacher	Oklahoma, Okla.
Rieff, O. S.	B. A.		Little Rock, Ark.
Watson, J. J.	B. A.		

Class of 1882.

Brown, W. D.	B. A.	Physician	Newtonia, Mo.
Carrigan, A. H.	B. A.	Dist. Judge 30th. Dist.	Wichita Falls, Tex.
Chanslor, C. K.	B. A.	Cashier Berry Co. Bank	Cassville, Mo.
Cherry, W. R.	B. A.	Cashier Bank of Paris	Paris, Ark.
Gregg, L. W.	B. A.	Asst. Dist. Att'y	Fort Smith, Ark.
Hon, Daniel	B. A.		
	M. A.	Circuit Judge	Waldron, Ark.
Jones, Gustave	B. LL.	Lawyer, Memb. Bd. Trustees Univ. Ark.	Newport, Ark.
McDonough, J. B.	B. A.	Lawyer	Fort Smith, Ark.
McFarlane, R. W.	B. A.		
	M. A. '84	Lawyer	Greenwood, Ark.
Oats, T. F.	B. A.		
Pickel, J. W.	B. A.	Physician	Kirkwood, Mo.
Rogers, B. A.	B. A.		
	M. A.		Gravette, Ark.
*Shell, G. C.	B. LL.		

*Deceased.

Class of 1883.

Name.	Degree.	Occupation.	Address.
Bates, C. O.	B. A.	Prof. Chem., Coe Col.	Cedar Rapids, Iowa.
Cravens, Jessie	B. LL.	Mrs. O. L. Craven	Neosho, Mo.
England, W. W.	B. A.		
Greaves, C. D.	B. A.	Lawyer	Hot Springs, Ark.
Mayes, J. F.	B. A.	U. S. Marshall, W. Dist. of Ark.	Fort Smith, Ark.
Stroup, Henry	B. A.	Planter	Paris, Ark.
Talliferro, Lou.	B. LL.		

Class of 1884.

Anderson, L. S.	B. LL.	Examiner U. S. Patent Office	Washington, D. C.
Duncan, W. H.	B. LL.	Lawyer	Conway, Ark.
*Edmiston, W. L.	B. LL.		
Gates, D. A.	B. L.		
	B. A.		
	B. LL.	Member State Tax Commission	Little Rock, Ark.
Goodwin, W. P.	B. LL.		
Hillis, A. W.	B. LL.	Lawyer	Lake City, Ark.
Hudson, J. H.	B. LL.		
Lake, Ella	B. LL.	Mrs. S. W. Barnett	
Reed, G. W. M. Jr.	B. LL.	Attorney	Washington, D. C.
Taff, R. L.	B. A.	Mgr. Teacher's Assoc.	Austin, Tex.

Class of 1885.

Hart, J. C.	B. A.	Assoc. Justice Supreme Court	Little Rock, Ark.
Howell, J. W.	B. LL.	Mgr. Ark. Cotton Oil Co.	Fort Smith, Ark.
Kinsworthy, E. B.	B. LL.		
	B. L.	Lawyer	Little Rock, Ark.
Notrebe, E. P.	B. A.		
Woodall, W. H.	B. A.		
Woolverton, C. D.	B. LL.		

Class of 1886.

Bates, J. H.	B. A.		
Leverett, Mary	B. A.	Mrs. J. A. Taff	Washington, D. C.
Middleton, Mal	B. A.	Mrs. Robt. Chasteen	Pawnee, Okla.
*Mulholland, Sarah	B. A.		
Tillar, B. J.	B. A.		

Class of 1887.

No Graduates

Class of 1888.

Bowles, P.	B. C. E.		
Crozier, W. N.	B. A.	Minister	Fayetteville, Ark.
Danaher, M		Lawyer	Pine Bluff, Ark.
Dickson, W. E.	B. A.	Teacher	Waldo, Ark.
Drake, N. F.	B. C. E.	Prof. Leland Stanford, Jr. Univ.	Palo Alto, Calif.

*Deceased.

Name.	Degree.	Occupation.	Address.
Flynn, W. N.	B. A.		
*Hobbs, J. H.	B. A.		
Pace, Ida	B. A.	Mrs. A. H. Purdue	Fayetteville, Ark.
*Poleson, Alice	B. S.		
Powell, W. W.	B. A.		
Schoff, J. C.	B. C. E.	Agt. Babcock & Wilcox Co.	Philadelphia, Pa.
Treadwell, L.	C. E.	Vice Pres. and Chief Engr. Union Brg. and Const. Co.	Kansas City, Mo.
Warren, G. A.	B. L.	Physician	Imboden, Ark.
*Willis, R. H.	B. A.		

Class of 1889.

Aikin, D. C.	B. C. E.		
Fishback, L. F.	B. S.	Lawyer	Fort Smith, Ark.
*Harrison, Grace	B. S.		
*McNeeley, J. C.	B. C. E.		
Obenshain, Ora	B. S.	Teacher	Eureka Springs, Ark.
Slagle, Ida	B. A.	Mrs. W. J. Gilbreath	Wichita, Kan.
Taff, Mary	B. A.	Mrs. G. V. Skelton	Corvallis, Oregon.

Class of 1890.

Hervey, W. R.	B. S.	Pres. 1st. Nat. Bank	Los Angeles, Cal.
Humphreys, G. A.	B. A.	Physician	New York, N. Y.
Morrow, Mattie	M. B. S.	Mrs. J. D. Wilson	Fayetteville, Ark.
*Taff, A. G.	B. C. E.		
Wheeler, J. N.	B. A.	Planter	Warren, Ark.

Class of 1891.

Drake, C. H.	B. C. E. C. E.		Summers, Ark.
Horton, S. A.	B. A.	Prin. City Schools	Houston, Tex.
Martin, M.	B. M. E. M. E. '93	Prof. Mech. Engr. Wash. Agr. College	Pullman, Wash.
Newman, A. J.	B. A.	Lawyer	Little Rock, Ark.
Patton, C. C.	B. A.	Wholesale Hdw	St. Louis, Mo.
Shreve, A. W.	B. C. E.	Lime Mfg.	Farmington, Ark.
Shreve, H. B.	B. C. E.		Farmington, Ark.
Shelton, G. V.	B. C. E. C. E. '95	Prof. C. E. Ore. Agr. College	Corvallis, Oregon.

Class of 1892.

Arbuckle, J. D.	B. A.	Dist. Pros. Atty	Paris, Ark.
*Black, J. W.	B. A.		
Booth, W. P.	B. A.		
Curry, Lulu	B. S.	Mrs. G. L. Teller	Riverside, Ill.
Galloway, J. R.	B. A.		
Hamilton, W. J.	B. A.	Merchant	Hartford, Ark.
Hedrich, I. G.	B. C. E.	Hedrick & Cochrane	Kansas City, Mo.
Holcomb, Cener	B. A.	Mrs. E. F. Ellis	Fayetteville, Ark.
*Pharr, J. S.	B. A.		

*Deceased.

Name.	Degree.	Occupation.	Address.
Vaulx, Julia	B. A.	Inst. in Eng. Iowa State College	Ames, Iowa.
Vaulx, S. F.	B. A.	Treas. Bluff City Lbr. Co.	Pine Bluff, Ark.
Wood, A. C.	B. M. E.	Const. Mech. Engr.	Philadelphia, Pa.

Class of 1893.

Armistead, C. F.	B. A.	Capt. 21st. Inf. U. S. A.	Philippines.
Ash, L. R.	B. C. E. B. E. E. '04 C. E. '05	City Engineer	Kansas City, Mo.
Bibb, Blanche	B. A.	Mrs. G. A. Humphreys	New York, N. Y.
Brewer, O. H. P.	B. S.	Pres. Cherokee Bd. of Education	Muskogee, Okla.
Hall, C. E.	B. C. E.	With D. & R. Ry. Co.	Dardanelle, Ark.
Heberley, J. A.	B. S.		Germany.
Moore, J. F.	B. S.	Merchant	Fayetteville, Ark.
Moore, J. H.	B. S.	Chemist	Saltville, Va.
Pharr, H. N.	B. C. E. C. E. '00	Const. Engineer	Memphis, Tenn.
Vance, A. M.	B. C. E.	Ass't. Engr. M. P. Ry. Co.	Holden, Mo.
Vandeventer, J.	B. S.	U. S. Navy	
Wood, B. F.	B. E. E.	Ass't. Engr. Motive Power Pa. Ry. Co.	Altoona, Pa.

Class of 1894.

Bell, J. C.	B. A.	Physician	Memphis, Tenn.
Braley, E. H.	B. A.	Engr. for Wm. Kenefick Co.	Kansas City, Mo.
Dyer, Mallie	B. A.		Prairie Grover, Ark.
Gibson, J. E.	B. M. E.	Ass't. Engr. A. M. Pipe Co.	Philadelphia, Pa.
Hall, H. J.	B. A.	Editor	Waldron, Ark.
Head, J. D.	B. A.	Lawyer	Texarkana, Ark.
Leverett, Abbie	B. A.	Mrs. J. H. Taff	Marfa, Tex.
Mobberley, H. P.	B. C. E.	Const. Engineer	Springfield, Mo.
Mock, E. L.	B. A.	With W. M. D. Cleveland and Sons	Houston, Tex.
Mock, L. Byrd	B. A. M. A. '05	Mrs. Wm. Crittenden	Stigler, Okla.
Pitman, R. T.	B. S.	Chief Chem. for Sloss-Sheffield Steel & Iron Co.	Birmingham, Ala.

Class of 1895.

No Graduates.

Class of 1896.

Allen, Edna	B. A.		Farmington, Ark.
Barnett, C. P.	B. E. E.	Engr. for Urban Const. Co.	Kansas City, Mo.
Barr, I. G.	B. S.	Mrs. R. E. Bagley	Perry, Okla.

*Deceased.

Name.	Degree.	Occupation.	Address.
Blackwell, W. I.	B. C. E.		
Beattie, Mary B.	B. A.	Teacher School for Deaf	Flint, Mich.
Boyd, W. E.	B. A.	Gen. Claim Agt. T. & B. V. Ry.	Houston, Tex.
Braley, Amanda	B. S.		
Braley, Etta	B. S.	Mrs. Thos. McCulloch	Lincoln, Ark.
Brixey, A. M.	B. A.	Merchant	Mounds, Okla.
Davies, Lila C.	B. A.	Mrs. Claud Head	Little Rock, Ark.
Drees, C. J.	B. E. E.	Memb. Ark. Elec. Co.	Little Rock, Ark.
Earle, Clara	B. A.	Teacher, Cumberland Col.	Lebanon, Tenn.
Eld, C. J.	B. C. E.	Const. Engr. for American Water Wks. and Guarantee Co.	Birmingham, Ala.
Martineau, J. E.	B. A.	Chancery Judge	Little Rock, Ark.
Myar, A. J.	B. C. E.	With St. L. Brg. & I. Co.	St. Louis, Mo.
Redus, J. L.	B. A.	Supt. Public Schools	Miami, Tex.
Remy, Molly	B. A.	Mrs. S. C. Treadwell	Tishomingo, Okla.
*Simonds, Alice	B. A.		
Vaughan, G.	B. A.		
	B. LL. '99	Lawyer	Little Rock, Ark.

Class of 1897.

Askew, W. H.	B. A.	Lawyer	Magnolia, Ark.
*Braley, E. E.	B. M. E.		
Campbell, J. R.	B. A.	Traveling Salesman	Greenwood, Ark.
Crozier, A. B.	B. E. E.	Const. Engr.	510 K. C. Life Bldg, Kansas City, Mo.
Howell, Wiley	B. S.	Capt. 6th. U. S. Inf.	
Leverett, Rose	B. A.	Mrs. Edwards	Cordell, Okla.
Lipsey, D. B.	B. S.	Salesman	Little Rock, Ark.
McNeil, D. A.	B. M. E.		
Moore, J. L.	B. M. E.	Kerr Turbine Co.	Wallsville, N. Y.
Morrow, D. C.	B. E. E.	Mgr. United Iron Works Co.	Iola, Kan.
Pruett, W. E.	B. C. E.	Designer, C. M. & St. P. Ry. Co.	Chicago, Ill.
Shelton, J. E.	B. S.	Chemist, Mathieson Alkali Works	Saltville, Va.
Vaulx, Katherine	B. A.		Deland, Fla.

Class of 1898.

Askew, G. H.	B. A.	Ins. Agent	Little Rock, Ark.
Ayers, W. E.	B. C. E.	Civil and Const. Engr.	Memphis, Tenn.
Bell, M. L.	B. A.	Gen. Atty., C., R. I. & P. Ry.	Chicago, Ill.
Cummings, R. N.	B. A.		2423 9th St., Seattle, Wash.
Eld, Amanda A.	B. A.	Prin. Acad. for Ind. Girls	Tuskahoma, Okla.
Holcombe, Jobelle	B. A.		Fayetteville, Ark.
McCain, W. R.	M. A.	Fire Ins.	Fordyce, Ark.
Nichols, G.	B. A.	With Colo. Ry. Assn.	Denver, Colo.

*Deceased.

Name.	Degree.	Occupation.	Address.
Price, C. G.	B. A.	Gen. Agent, Union Life Ins. Co.	Little Rock, Ark.
Ross, W. A.	B. A.	Missionary	Tinares, N. L., Mex.
Smith, A. V.	B. A.	Lawyer	Warren, Ark.
Spencer, E. L.	B. A.		
Williams, Hattie	B. A.	Teacher	Fayetteville, Ark.
Williams, Jennie	B. A.	Teacher	Fort Smith, Ark.

Class of 1899.

Bevers, A. W.	B. A.	Druggist	Springdale, Ark.
Blair, J. H.	B. C. E.		Chicago, Ill.
*Fillmore, C. R.	B. S.		
Hobbs, W. D.	B. A.		
	L. I. B. S. '01	War. Dept.	Washington, D. C.
Huie, R. W.	B. A.	Lawyer	Arkadelphia, Ark.
Kirby, F. B.	B. A.	Physician	Little Rock, Ark.
Patterson, Daisy	B. A.	Mrs. C. C. Suman	Cushing, Okla.
Sanders, C. F.	B. A.	Editor, Sentinel-Record	Hot Springs, Ark.
Weems, C. N.	B. A.	Teacher	
Wiley, Winona	B. A.	Teacher	Smith Grove, Ky.
Wood, G. B.	B. A.	Gen. Agt. K. C. S. Ry.	Shreveport, La.

Class of 1900.

Abernathy, G. C.	B. A.	Lawyer	Shawnee, Okla.
Brown, E. T.	B. C. E.	Div. Engr., B. & O. Ry.	Winchester, Pa.
Connelly, S.	B. A.		
Crawford, W. A.	B. A.	Supt. Schools	Russellville, Ark.
Dickinson, T. T.	B. A.		
	LL. B. '02	Lawyer	Little Rock, Ark.
Dickinson, Ruth	B. A.	Mrs. Elliot Berry	Bentonville, Ark.
Eld, G. W.	B. M. E.	Mech. Engr. Co.	St. Joseph, Mo.
Erwin, T.	B. S.	Assoc. Prof. Hort., Iowa A. & M. College	Ames, Iowa.
Gray, W. D.	B. A.	Instr. in Latin, Smith College	Northampton, Mass.
Hornor, J. L.	B. A.	Lawyer	Helena, Ark.
Horsfall, F.	B. S.	Horticulturist, Mo. State Exp. Station	Mountain Grove, Mo.
Means, A. D.	B. A.	Supt Schools	Pocahontas, Ark.
Orto, C. H.		Auditor, Armour & Co.	Memphis, Tenn.
Philbeck, R. E.	B. A.	Teacher	Pine Bluff, Ark.
Purdy, E. N.	B. S.	Mrs. S. T. Darden	Blanton, Miss.
Rattenbury, W. H.	B. A.	Salesman for Cruden-Marten of St. Paul	Duluth, Minn.
Taylor, D. W.	B. A.	Lawyer	Camden, Ark.
Thomason, Annie	B. A.	Mrs. C. L. Dunlap	Clifton, Ark.
Towler, G. F.	B. A.		
Treadway, B. A.	B. E. E.		
	E. E. '01		
	B. M. E. '03	Pres. Treadway Electric Company	Little Rock, Ark.
Young, Daisy	B. A.		

*Deceased.

Class of 1901.

Name.	Degree.	Occupation.	Address.
Askew, Nancy	B. A.	Mrs. C. N. Weems	Smith Grove, Ky.
Bostick, J. A.	B. S.	Ins. Treas. Dept.	Washington, D. C.
Brown, H. S.	B. M. E.	N. E. Mgr. Power Spec. So.	Boston, Mass.
Cochrane, V. H.	B. C. E.		
	C. E. '06	Hedrick & Cochrane	Kansas City, Mo.
Collier, J. T.	B. A.		
Davis, B. T.	B. A.		
	B. S.	Lawyer	Wewoka, Okla.
Davis, J. H.	B. E. E.	Asst. Elec. Engr. B. & O. Ry.	Baltimore, Md.
Freeman, W. A.	B. S.		
	B. A.	Engr. U. P. Ry.	Green River, Wyo.
Henderson, G. D.	B. A.		
	B. LL.	Lawyer	Little Rock, Ark.
Howell, Edward	B. A.	Lawyer	Shawnee, Okla.
Hudgins, W. H.	B. C. E.	Asst. Engr. S. P. Ry. Co.	San Francisco, Cal.
McRae, C.	B. C. E.	Lumber Merchant	Mt. Holly, Ark.
Mundt, L. J.	B. S.		
	B. A.	Lawyer	Helena, Ark.
Newman, L. L.	B. E. E.		
Ross, H. L.	B. A.	Missionary	Matamoros, Mex.
Ross, Lucy I.	B. A.		
Sadler, C. L.	B. C. E.	Topog. U. S. G. S.	Washington, D. C.
Sanders, T. E.	B. A.	Physician	Hot Springs, Ark.
Smith, Fannie			Little Rock, Ark.
Stubblefield, Dennis	B. A.		
	L. I.		Kansas City, Mo.
Treadway, T. C.	B. E. E.		
	E. E. '04	Vice Pres. Treadway Electric Co.	Little Rock, Ark.
Triplett, C. H., Jr.	B. A.		Pine Bluff, Ark.
Webster, Olive	B. A.		Marvell, Ark.
Williamson, W. N.		Cashier, Farmer's Bank	Greenwood, Ark.
Wilson, H. H.	B. E. E.	In. Mech. Engr. Dept. Pa. Ry.	Altoona, Pa.
Wilson, W. O.	B. L.		
	B. S. '04	Teacher, Hendrix College	Conway, Ark.

Class of 1902.

*Alden, R.	B. A.		
Barton, R. B.	B. A.	Member F. G. Barton Cotton Co.	Memphis, Tenn.
Baxter, J. W.	B. A.		
	B. S.	Real Estate and Invest.	Fayetteville, Ark.
Beakley, J. D.	B. A.		
Briggs, O. D.	B. A.		
Brown, F. J.	B. M. E.	Mech. Engr. with Thomas-Fordyce Co.	Little Rock, Ark.
Buchanan, H. E.	B. A.		
Clancy, W., Jr.	B. C. E.	Mi. Engr. with Butte Copper Mining Co.	Butte, Mont.

*Deceased.

Name.	Degree.	Occupation.	Address.
Ellis, W. Y.	B. E. E.	Supt. Pine Bluff Elec. Ry. Co.	Pine Bluff, Ark.
Galloway, Rowena	M. B. A.		
Gibson, F. J.	B. S.	Chemist, Southern Cotton Oil Co.	Savannah, Ga.
Hardin, Nina V.	B. A.		
	M. D. '05	Physician	Fayetteville, Ark.
Hardin, Lena J.	B. A.		
	L. I.		
	M. A. '04		Fayetteville, Ark.
Kimball, G. H.	B. C. E.	Sec. Queen of Arkansas Ins. Co.	Little Rock, Ark.
Lander, R. S.	B. C. E.		
	C. E. '05	Mining Engineer	Galena, Ill.
McConnell, J. L.	B. C. E.	Supt. of Const. Engr. for Halabreel & Roche	Chicago, Ill.
Sedgwick, T. D.	B. A.		
	B. S.	Chief Chemist for C., R. I. & P. Ry. Co.	Chicago, Ill.
Smith, C. D.	B. A.	Geol. U. S. G. S.	Washington, D. C.
Stubblefield, G.	B. C. E.	Const. Engr.	Portland, Oregon.
Sutton, Mabel	B. A.	Mrs. A. W. Wasson	Sangdo, Korea.
Wasson, A. W.	B. A.	Missionary	Sangdo, Korea.
Wiley, Pearl E.	B. S.	Teacher	Booneville, Ark.
Williams, C. X.	B. A.		
	L. I.		Booneville, Ark.

Class of 1903.

Bates, Madge N.	B. A.	Mrs. Hugh Morrow	Fayetteville, Ark.
Billings, F. M.	B. C. E.		
Blaylock, J. C.	B. C. E.	Chief Est. and Designer H. Eilenberger & Co.	Chicago, Ill.
Brewster, H.	B. A.		
Bryan, L. B.	B. C. E.	Ass't. City Engr.	Chattanooga, Tenn.
Cartwright, W. W.	B. A.		
	B. S.		
	L. I.		Mountain View, Ark.
Clark, E.	B. A.		
Crozier, Elizabeth	B. A.	Mrs. H. C. Evins	Morrow, Ark.
Daniels, H. F.	B. C. E.	Trav. Frt. Agent N. & W. Ry.	Memphis, Tenn.
Davis, F. H.	B. A.	Jr. Engr. U. S. Engr's. Office	Tuscaloosa, Ala.
*Droke, Lelia	B. A.		
	M. A. '06		
Ellis, J. R.	B. E. E.		
	B. C. E. '09	1st. Lieut. U. S. Army.	San Francisco, Cal.
Harris, W. M.	B. A.	Lawyer	Little Rock, Ark.
Holt, F. W.	B. A.	Ass't. Paymaster U. S. Navy, Bureau of Supplies and Accounts	Washington, D. C.
Honnett, A. M.	B. E. E.	Engr., Supplies and Mfg. Agent, Frisco Bldg.	St. Louis, Mo.
Longino, J. L.	B. E. E.		
	B. M. E.		Little Rock, Ark.

*Deceased.

Name.	Degree.	Occupation.	Address.
McGehee, A., Jr.	B. A.	Lawyer	Little Rock, Ark.
Melton, Hattie C.	B. A.	Mrs. M. L. Cotton	Stiegler, Okla.
Middleton, R. J.	B. C. E.	Ass't. Engr. C. M. & St. P. Ry.	Chicago, Ill.
Mitchell, S. A.	B. A.	Lawyer	Mo. Trust Bldg, St. Louis, Mo.
Mooring, D. C.	B. S. M. SS.	Ass't. Prof. Hort., Miss. Agri. College	Starksville, Miss.
Muller, J. F.	B. M. E.	With I. M. Ry. Co.	Little Rock, Ark.
Rife, W. B.	B. A. B. S.		
Ruggles, W. A.	B. E. E.	Draft. for Bd. of Ed.	St. Louis, Mo.
Saxon, R. L.	B. S.	Physician	Holly Grove, Ark.
Streepy, J. P.	B. A. L. I. B. LL.	Lawyer	Little Rock, Ark.
Taylor, Rupert	B. A.		New York City.
Womack, J. P.	B. A. L. I.	Supt. Schools	Magnolia, Ark.

Class of 1904.

Abercrombie, J. S.	B. A. LL. B.	Lawyer	Benton, Ark.
Blanchard, Fay H.	B. A. L. I.		Fayetteville, Ark.
Bloom, J. R.	B. E. E.	Pine City Elec. Co.	Pine Bluff, Ark.
Burney, Sue	B. A.	Supt. Schools	Van Buren, Ark.
Chappel, E. W.	B. E. E.	Gen. Elec. Co.	Schenectady, N. Y.
Cook, L. J.	B. A.	Lawyer	Texarkana, Ark.
Davis, Mary L.	B. A. L. I.	Teacher	Texarkana, Ark.
Droke, Josephine	B. A.	Instr. Math., A. U.	Fayetteville, Ark.
Gregg, Edna	B. Mus.	Private Teacher	Little Rock, Ark.
Harding, A. M.	B. A.	Assoc. Prof. of Math., A. U.	Fayetteville, Ark.
Knott, V. P.	B. C. E.	Assoc. Prof. Civil Engr., A. U.	Fayetteville, Ark.
Langford, B. W.	B. A.	Fox Bros. Hdw. Co.	Pine Bluff, Ark.
Leverett, E. V.	B. M. E.	Supt. City Elec. Light Plant	Conway, Ark.
McAlester, A. W.	B. E. E.		McAlister, Okla.
Milum, R. W.	B. A.	Merchant	Harrison, Ark.
Morrow, H. E.	B. S. A.	Adj. Prof. of Chem., A. U.	Fayetteville, Ark.
Mullin, G. W.	B. A.	Prof. Math., Simonds College	Abilene, Texas.
Phillips, C. O.	B. A.	Banker	Fayetteville, Ark.
Quarles, J. T.	B. M. E.	Contractor	Oklahoma City, Okla.
Risser, T. S.	B. E. E.	Elec. Engr.	Omaha, Nebr.
Shellenberger, Alice	B. A.		Fayetteville, Ark.
Stanford, A. F.	B. C. E.	Torance Bros. & Co.	Memphis, Tenn.
Stone, B. H.	B. A.	Lawyer	Amarillo, Texas.
Swearingin, S. C.	B. A.	Prin. Public Schools	Stigler, Okla.
Treadwell, S. C.	B. A.	Lawyer	Tishomingo, Okla.
Vaulx, Eleanor	B. A.		

Name.	Degree.	Occupation.	Address.
Walker, J. W.	B. A.		
	L. I.	Student Medical Sch.	St. Louis, Mo.
Wilson, J. R.	B. A.		
	L. I.		
	LL. B. '06	Lawyer	Warren, Ark.
Wood, C. F.	B. C. E.	Real Estate Broker	Fort Smith, Ark.

Class of 1905.

Abercrombie, Bertha	B. A.	Mrs. J. E. Willis	Little Rock, Ark.
Beard, A. H.	B. C. E.	State Board of Health	Harrisburg, Pa.
Carothers, Neil	B. A.	Assoc. Prof. of Econ. and Sociology, A. U.	Fayetteville, Ark.
Carr, W. B.	B. A.	With Iola Cement Co.	Dallas, Texas.
Carter, E. L.	B. A.	Lawyer	Little Rock, Ark.
Chapman, J., Jr.	B. C. E.		
Cockrill, E.	B. M. E.	N. K. Fairbanks Co.	Chicago, Ill.
Cole, Mary E.	B. A.		
	L. I.	Instr. H. S.	Stillwater, Okla.
Cook, C. M., Jr.	B. S.	U. S. Naval Acad.	Annapolis, Md.
Cromwell, C. W.	B. C. E.	Const. Engr.	Douglas, Ariz.
Davis, J. B.	B. S.		Chelsea, Okla.
Dickinson, W. E.	B. S. C.	Chem., Ind. Phosphate Mines	Columbia, Tenn.
Grubbs, J. M.	B. A.		
	L. I.	Lawyer	Stillwater, Okla.
Hudgins, J. G.	B. A.		
	L. I.		Fayetteville, Ark.
Irby, A. S.	B. A.	Lawyer	Black Rock, Ark.
Jackson, B. O.	B. A.	Merchant	Hamburg, Ark.
Jeffries, S. S.	B. A.	Ass't. P. M.	Clarendon, Ark.
Jones, C. W.	B. S.		
Jordan, Grace	B. A.		
Kitchens, B. M.		Merchant	Paragould, Ark.
King, E. H.	B. A.		
Lark, W. H.	B. C. E.	Ass't. Engr. Imp. Dist.	Little Rock, Ark.
Legate, R. H.	B. S.		
McGehee, Ben	B. C. E.	Const. Engr.	Little Rock, Ark.
McMillan, Della	B. Mus.	Mrs. B. O. Jackson	Hamburg, Ark.
Nelson, R. J.	B. S.		
	L. I.		
	M. S. '07	Editor	Dallas, Texas.
Olney, L. S.	B. E. E.	Assoc. Prof. E. E., Univ. of Ark.	Fayetteville, Ark.
*Pope, N. P.	B. S.		
Pratt, F. H.	B. C. E.	Banker	Kansas, Okla.
Reves, C. M.	B. A.	Minister	Piggott, Ark.
VanValkenburg, H. B.	B. S.	Student, A. U.	Fayetteville, Ark.
Webb, C. W.			
Webster, F. H.	B. E. E.	Gen. Elec. Co.	Sdhenectady, N. Y.
Whitehead, A. D.	B. A.		
	L. I.	Lawyer	Warren, Ark.
Williams, Beulah	B. A.	Mrs. H. B. VanValkenberg	Fayetteville, Ark.

*Deceased

Class of 1906.

Name.	Degree.	Occupation.	Address.
Andrix, E. R.	B. M. E.	Mech. Engr. with City R. R.	Columbus, Ohio.
Austin, R. E. L.	B. A.		
Ballard, B. C.	B. A.		Fayetteville, Ark.
Blackshire, P. L.	B. C. E.	Engineer	Calgary, Alberta, Can.
Brockman, E. W.	B. A.		
Brunskog, C. W.	B. C. E.		
Campbell, L. L.	B. A. L. I.		
Catts, E. C.	B. M. E.	Mech. Engr.	Almyra, Ark.
Collins, T. A.	B. A.	Lawyer	De Queen, Ark.
Craig, P. G.	B. A.		
Croom, C. W.	B. A.	Lawyer	El Paso, Texas.
Cubage, J. G.	B. A.	Prof. Ark. State Normal	Conway, Ark.
Dalton, C. E.	B. E. E.		
Davis, Barbara	B. Mus.	Mrs. L. S. Olney	Fayetteville, Ark.
DeLoney, E. D.	B. A.		
Field, W. T.	B. M. E.	With Palmer Engr. Co.	Kansas City, Mo.
Foreman, C. D.	B. S. A.	Farmer	Chelsea, Okla.
Gardner, J. W.	B. A.		
Harding, C. T.	B. C. E.	With Burns-McConnel	Kansas City, Mo.
Holland, W. C.	B. A.	Druggist	Greenwood, Ark.
Hooper, Lillian	B. Mus.		
Hunt, H. G.	B. A.	Lawyer	Shawnee, Okla.
Hurst, G. A.	B. A.	Lawyer	Forrest City, Ark.
Jacks, M. E.	B. S.	Chemist	Bisbee, Ariz.
James, J. J.	B. A.		Maysville, Ark.
Johnson, J. H.	B. A.	Lawyer	Newport, Ark.
Keeney, A. R.	B. Mus.	Mrs. Guy Phillips	Fayetteville, Ark.
Leche, Mary	B. Mus.		
Leverett, S.	B. S.		Magdalena, Mex.
McCrory, G. G.	B. C. E.	Const. Engr.	Birmingham, Ala.
Mullins, T. C.	B. C. E.	Chicago Tr. Co.	Chicago, Ill.
*Nordmeyer, C. D.	B. S.		
Oates, C. E.	B. A. L. I.		
Oishi, Zeuki	M. A.		Japan.
Payne, Brodie	B. A.	With Williams Coal Company	McHenry, Ky.
Pope, A. D.	B. S.		
Pratt, D. H.	B. S.		Fayetteville, Ark.
Pruett, J. C.	B. C. E.	Ass't. Engr., C. M. & St. P. R. R.	Miles City, Mont.
Pruett, R. J.	B. C. E.		
Rhyne, J. R.	B. S. B. C. E. '07	Engr. Dr. District	Corning, Ark.
Sadler, D. K.	B. A.	Lawyer	Dallas, Texas.
Schimmelpfennig, C. W. ...	B. C. E.		Chicago, Ill.
Stanford, J. B.	B. S. Ch.	Student	New York City.
Stockton, Irene	B. A.	Teacher	Little Rock, Ark.
Stone, J. H.	B. S.		Pine Bluff, Ark.

*Deceased.

Name.	Degree.	Occupation.	Address.
Weber, L. W.	B. A.	Prin. H. S.	Durant, Okla.
Wilson, C. P.	B. S. A.		
Wilson, Nellie C.	B. A.		Fort Smith, Ark.
Winten, W. L.	B. C. E.	Winters & Dove	Fort Smith, Ark.

Class of 1907.

Balch, C. P.	B. A.		
	L. I.	Prin. H. S.	Taylor, Texas.
Ballard, J. M.	B. A.	Prin. H. S.	Roswell, N. Mex.
Barrett, F. B.	B. C. E.	Topog. U. S. G. S.	Jonesboro, Ark.
Blair, Leora	B. A.		
	L. I.	Teacher	
Bolinger, W. A.	B. A.	Teacher, Ft. Smith H. S.	Fort Smith, Ark.
Borden, J. M.	B. S. A.	Agri. Dept.	Fayetteville, Ark.
Buford, C. H.	B. C. E.	Ass't. Engr., Santa Fe Ry.	Topeka, Kan.
Coker, A.	B. C. E.		
Coker, Roy	B. C. E.		
Combs, W.	B. C. E.		
	C. E. '10	Combs & Smith	Tupelo, Miss.
Crozier, Ruth	B. A.	Teacher	Fayetteville, Ark.
Davis, Lyta	B. A.		
Deane, S. E.	B. C. E.	Engineer	Sanden, Idaho.
Dickson, E. W.	B. E. E.	Elec. Engr.	Desha, Ark.
Droke, Mary	B. Mus.	Student, A. U.	Fayetteville, Ark.
Evins, Sallie D.	B. A.		
Harding, V. A.	B. E. E.		
Hillman, C. C.	B. S.	Physician	Elmyra, Ark.
Holt, J. S.	B. A.	Lawyer	Fort Smith, Ark.
House, J. W., Jr.	B. A.	Lawyer	Little Rock, Ark.
Hughes, L. C.	B. S.		
	B. Ch. E. '08	Chemist	Hitchinson, Kan.
Hyatt, R. F.	B. Ch. E.	Cadet U. S. Mil. Acad.	West Point, N. Y.
Jeffries, A. J.	B. A.		Clarendon, Ark.
Johnson, A. J.	B. A.	Lawyer	Star City, Ark.
Mahoney, J. K.	B. A.	Lawyer	El Dorado, Ark.
Mashburn, E. E.	B. C. E.	Engr. Maintenance of Way, M. & N. A. Ry.	Eureka Springs, Ark.
McConnell, J. E.	B. A.		Stillwater, Okla.
McCulloch, D.	B. A.	Lawyer	Marianna, Ark.
Mitchell, B., Jr.	B. M. E.	Assoc. Prof. M. E.	Fayetteville, Ark.
Moore, Henrietta	B. A.		
Murphy, J. W.	B. S.	Asst. Chemist, Texas A. & M. College	College Station, Texas.
Oliver, Bess	B. A.		Fayetteville, Ark.
Orr, M. K.	B. Mi. E.		Mercer, Utah.
Parker, A. C.	B. S.		
Pollard, W. A.			Gaither, Okla.
Pugh, Anna	B. A.		
	L. I.	Teacher, Mountain Home College	Mountain Home, Ark.
Reed, K. A.	B. E. E.	With Westinghouse Elec. Company	St. Louis, Mo.
Risser, Elizabeth	B. A.		Fayetteville, Ark.
Shook, Sarah	B. A.		
	M. A. '09		

Name.	Degree.	Occupation.	Address.
Shire, Rena	B. A.	Mrs. Cameron Duncan	Brooklyn, N. Y.
Swiley, G. M.	B. S.		
Smilie, R. P.	B. C. E.		
Spradlin, B. A.	B. A.		
	L. I.	Prin. H. S.	Ravenden Spgs., Ark.
Stanley, J. H.	B. A.	Lawyer	Little Rock, Ark.
Stelzner, W. B.	B. E. E.	Adj. Prof. E. E., A. U.	Fayetteville, Ark.
Taber, H. B.	B. A.	Lawyer	Fort Smith, Ark.
Thomas, B. F.	B. A.		Tyler, Texas.
Tidball, Nelle	B. A.		
Tyson, W. C.	B. C. E.	U. S. River Imp.	Vicksburg, Miss.
Umbaugh, Ollie	B. A.		
Watson, J. T.	B. C. E.	Ass't. City Engr.	Pine Bluff, Ark.
Weld, Jean	B. A.		Marianna, Ark.
Wilson, J. M.	B. S.	Prof. Agri., A. U.	Fayetteville, Ark.
Wood, J. S.	B. S. C.	Cadet U. S. Mil. Acad.	West Point, N. Y.
York, J. O.	B. A.		

Class of 1908.

Barrett, R. M.	B. S. C.		
Belknap, J. R.	B. M. E.	Allis-Chalmers Co.	Milwaukee, Wis.
Bird, E. V.	B. C. E.	Tupper & Bird	Muskogee, Okla.
Blakemore, T. L.	B. A.		
Boles, A. P.	B. A.		Fayetteville, Ark.
Brizzolara, John	B. A.		
Brown, C. C.	B. A.	Student Johns Hopkins Univ.	Baltimore, Md.
Brunson, T. R.	C., R. I. & P. Ry.		Topeka, Kans.
Bryant, W. C.	B. A.	Teacher, H. S.	Little Rock, Ark.
Chunn, G. D.	B. S.	Student Johns Hopkins Univ.	Baltimore, Md.
Dean, Ruth	B. A.	Teacher H. S.	Mena, Ark.
Fry, J. E.	B. C. E.	Fry & Matthews	Helena, Ark.
Grant, J. R.	B. A.		
	M. A.	Teacher	Yellville, Ark.
Hight, W. C.	B. C. E.		Fayetteville, Ark.
Jones, J. L.	B. A.		Frank, Ark.
Langford, W. H.	B. A.		Vilonia, Ark.
Locke, J. M.	B. C. E.	K. C. S. Ry.	Kansas City, Mo.
Louker, C. G.	B. A.	Teacher	Palestine, Texas.
Mitchell, N. D.	B. C. E.	Architect	Chicago, Ill.
Miser, H. D.	B. A.	Student, A. U.	Fayetteville, Ark.
Miser, W. L.	B. A.	Prin. H. S.	Portland, Ark.
Moore, S. W.	B. A.		
Morgan, W. S.	B. A.	Teacher	Hartford, Ark.
Pearson, T. M.	B. A.	Teacher	Wynne, Ark.
Pritchett, F. A.	B. C. E.	With City Engr.	Memphis, Tenn.
Reagan, Z. L.	B. C. E.	Bookkeeper, Ozark Gro. Co.	Fayetteville, Ark.
Redden, Albert	B. A.		Harrison, Ark.
Ross, J. H.	B. S.	Sec. Y. M. C. A.	Dallas, Texas.
Sanders, Lucy E.	B. A.		Fayetteville, Ark.
Shaver, L. B.	B. C. E.		
	B. S.	With M. O. & G. Ry.	Muskogee, Okla.
Smith, H. K.	B. A.	With Caddo Gas & Oil Co.	Oil City, La.

Name.	Degree.	Occupation.	Address.
Snell, V. K.	B. C. E.	With Post-McCord	New York City.
Sowers, Gracie	B. A.	Mrs. J. R. Grant	Greenwood, Ark.
Starbuck, A.	B. A.	Prin. H. S.	Charleston, Ark.
Thompson, M. F.	B. E. E.		
Thompson, W. E.	B. S.		Warren, Ark.
Townsley, F. P.	B. E. E.	Allis-Chalmers Co.	Milwaukee, Wis.
Walker, Mabel	B. A.		Buntyn, Tenn.
Wiggins, J. C.	B. C. E.		
Williams, O. E.	B. A.		
Woodson, E. F.	B. C. E.	With Central Coke & Coal Co.	Dwight Bldg., Kansas City, Mo.
Woodruff, C. H.	B. A.	Prin. H. S.	Sapulpa, Okla.

Class of 1909.

Allen, J. C.	B. A.	Teacher	Cane, Ark.
Bayley, W. S.	B. E. E.	Gen. Elec. Wks.	Schenectady, N. Y.
Bell, Lexie	B. A.		
Bunn, J. B.	B. A.	Prin. H. S.	Siloam Springs, Ark.
Carnall, Bess	B. A.	Teacher	Murfreesboro, Ark.
Cash, C. C.	B. A.	Commandant T. C. I.	San Antonio, Tex.
Chamberlain, R. R.	B. S.		Malvern, Ark.
Coker, John	B. C. E.		
Coleman, Nelle	B. A.	Dean of Women's College	Louisville, Miss.
Davis, A. C.	B. M. E.	With Bylesby & Co.	Chicago, Ill.
Davis, O. L.	B. C. E.		
Douglas, Frances	B. A.		
Dulaney, J. J.	B. A.	Teacher, O. B. C.	Arkadelphia, Ark.
Ellis, Forrest	B. A.		Fayetteville, Ark.
Ford, D. L.	B. A.	Teacher	Foreman, Ark.
Gibson, R. C.	B. A.		
Gibson, W. B.	B. A.		
Greathouse, Ollie	B. A.		
Grubbs, W. W.	B. A.		
Hawkins, F. C.	B. A.	Adj. Prof. Anc. Languages, U. A.	Fayetteville, Ark.
Hixon, H. G.	B. C. E.	City Engr.	Hugo, Okla.
Holt, R. E.	B. A.	Lawyer	Stuttgart, Ark.
Holtzclaw, H. H.	B. S. A.	Prof., Agri. School	Magnolia, Ark.
Hurt, Garland	B. A.	Banker	Newport, Ark.
Jernigan, W. J.	B. A.	Insurance	Little Rock, Ark.
Ketchem, Annie	B. A.	Teacher	Little Rock, Ark.
Leister, L. B.	B. A.		
Machem, Jewell	B. A.		Magnolia, Ark.
McCulloch, H.	B. A.	Student, Johns Hopkins Univ.	Baltimore, Mr.
McNemer, Phil	B. A.	Lawyer	Little Rock, Ark.
McNeil, R. A.	B. C. E.	With Utah & Garfield Ry.	Canyon, Utah.
Mehaffey, J. W.	B. A.	Lawyer	Little Rock, Ark.
Miller, Myrtle	B. A.		Fayetteville, Ark.
Mitchell, Ara	B. A.	Mrs. J. W. Mehaffey	Little Rock, Ark.
*Moore, J. G.	B. A.		
Murphy, W. C.	B. A.	Prin. H. S.	Prairie Grove, Ark.

*Deceased.

Name.	Degree.	Occupation.	Address.
Nesbit, W. E.	B. A.	Student, Johns Hopkins Univ.	Baltimore, Md.
Nichols, Elizabeth	B. A.		
Norton, D. A.	B. A.	Student, Columbia U.	New York City.
Nunn, Lucy	B. A.		
Oates, M. B.	B. S.	A.	
Pulley, C. H.	B. A.	Insurance	McAlister, Okla.
Reid, Alicia	B. A	Teacher	Fayetteville, Ark.
Revel, J. W.	B. S.	C. Chemist	Chicago, Il.
Rhodes, C. R.	B. E.	E. Planter	Osceola, Ark.
Rhodes, J. W.	B. A.	Lawyer	Osceola, Ark.
Russell, F.	B. S.	Prof. Science, L. R. H. S.	Little Rock, Ark.
Sherrill, J. A.	B. A.		
Shipley, J. L.	B. A.	Rhodes Scholar	Oxford, Eng.
Snell, M. F.	B. C. E.	Post-McCord	New York City.
Spencer, Aileen	B. A.	Teacher	Monticello, Ark.
Trent, Bess	B. A.		Fayetteville, Ark.
Tucker, J. R.	B. S. A.	Chemist, Agri. Exp. Sta. A. U.	Fayetteville, Ark.
Waterfield, E. A.	B. A.	Insurance Agent	Little Rock, Ark.
Watkins, G. A.	B. C. E.	Dickinson & Watkins	Little Rock, Ark.
Williamson, T. D.	B. E. E.	Gen. Elec. Co.	Schenectady, N. Y.
Wilson, C. N.	B. C. E.	2d. Lieut. U. S. Army	Ft. Rosecranz, Cal.
Winfrey, L. E.	B. A.	Teacher, Hendrix College	Conway, Ark.
Womock, R. E.	B. A.	Prof. of History, Ark. State Normal	Conway, Ark.
Woods, J. P.	B. A.	Law Student	Little Rock, Ark.
Wootton, L. L.	B. A.	Exec. Clerk, Agri. Exp. Sta., A. U.	Fayetteville, Ark.

Class of 1910.

Atkinson, J. H.	B. A.		
Bailey, P. W.	B. A.	Druggist	Warren, Ark.
Barrett, A. J.	B. A.	Teacher	Lonoke, Ark.
Barton, D. R.	B. A.	Insurance Agent	Jonesboro, Ark.
Blacklock, I. W.	B. A.		Eureka Springs, Ark.
Blair, D. B.	B. C. E.	With American Bdg. Co.	Gary, Indiana.
Blair, J. H.	B. C. E.	With Columbia Steel Co.	Johnstown, Pa.
Blair, S. T.	B. C. E.	With American Bdg. Co.	Gary, Indiana.
Bledsoe, J. L.	B. A.	Teacher	Corning, Ark.
Boles, C. B.	B. M. E.	With Worthington Pump Co.	Harrison, N. J.
Campbell, S. J.	B. A.	Bookkeeper	Fayetteville, Ark.
Carter, Nama	B. A.	Teacher	Texas.
Cheever, Louise	B. A.	Teacher	Wilton, Ark.
Childress, M. V.	B. A.		
Cole, K. E. N.	B. E. E.	Gen. Elec. Co.	Schenectady, N. Y.
Cotnam, Ruby	B. A.		Monticello, Ark.
Coyle, Norman	B. A.	Teacher	Coal Hill, Ark.
Crawford, H. V.	B. E. E.	Gen. Elec. Co.	Schenectady, N. Y.
Curl, May	B. A.	Teacher	Nashville, Ark.
Davis, C. G.	B. A.		Fayetteville, Ark.
Davis, Olga	B. A.	Teacher	England, Ark.
Davis, Opal	B. A.	Teacher	El Paso, Ark.
Davis, R. L.	B. A.	Tr. Salesman	Shreveport, La.

Name.	Degree.	Occupation.	Address.
DeLongy, H. C.	B. C. E.	With M. O. & G. Ry.	Muskogee, Okla.
DeWitt, Frances	B. A.		
Eason, H. E.	B. E. E.		Fayetteville, Ark.
Freeman, J. D., Jr.	B. A.		
Freeman, T. B.	B. A.	Merchant	Marianna, Ark.
Gardner, P. B.	B.A.	Student, Tulane U.	New Orleans, La.
George, F. J.	B. A.		
George, I. L.	B. A.	Teacher	Duncan, Okla.
Goodbar, J. E.	B. A.		
Goodwin, R. C.	B. A.		
Graham, S. B.	B. E. E.	Westinghouse Co.	Pittsburg, Pa.
Hall, Julien	B. A.		Fayetteville, Ark.
Huntley, P. C.	B. C. E.	Adj. Prof. C. E., A. U.	Fayetteville, Ark.
Huxtable, W. G.	B. C. E.	Drain. Engr.	Lake Village, Ark.
Jennings, D. R.	B. M. E.	Agr. School	Jonesboro, Ark.
Joiner, Jennie	B. A.	Teacher	Osceola, Ark.
Jones, H. A.	B. A.		
Kantz, Willie D.	B. A.	Teacher	Fayetteville, Ark.
Keck, H. M.	B. A.	Prin. H. S.	Paris, Ark.
Keeney, Marie	B. A.		
Kunz, Gladys	B. A.	Teacher, H. S.	Fayetteville, Ark.
Lamberton, Annie	B. A.	Teacher	Little Rock, Ark.
Leuker, T. F.	B. A.	Teacher, H. S.	Camden, Ark.
McCulloch, E. G.	B. A.	Student Harvard Law School	Cambridge, Mass.
McGraw, Ophelia	B. A.		
Miller, H. G.	B. A.	Sec. Hon. Joe T. Robinson	Washington, D. C.
Moon, V. T.	B. C. E.	Transit., K. C. S. Ry.	Pittsburg, Kan.
Morehead, Lelia	B. A.	Teacher, H. S.	Hot Springs, Ark.
Morgan, Elma	B. A.	Y. W. C. A. Sec.	Fayetteville, Ark.
Morgan, W. G.	B. C. E.	Transit., K. C. S. Ry.	Pittsburg, Kan.
Neimeyer, F. W.	B. A.	Lawyer	Little Rock, Ark.
Patton, A. P.	B. A.		
Phillips, M. R.	B. A.	Teacher	Fordyce, Ark.
Pye, W. D.	B. C. E.	Pye & Mitchell	Paragould, Ark.
Reed, J. A., Jr.	B. C. E.	Trans., Frisco R. R.	Springfield, Mo.
Shinn, E. H.	B. A.	Prof. Agri. School	Russellville, Ark.
Southmayd, L. H.	B. A.	Lawyer	Van Buren, Ark.
Stockburger, A. E.	B. S.	Planter	Winslow, Ark.
Sutton, Beulah	B. A.	Teacher	Yellville, Ark.
Thompson, S. E.	B. E. E.	Elec. Engr.	Muskogee, Okla.
Tidball, Susan	B. A.	Teacher	Fort Worth, Texas.
Tillman, Fred.	B. A.	Lawyer	Fayetteville, Ark.
Wasson, P. L.	B. C. E.		
White, Pearl	B. A.		Fayetteville, Ark.
Womack, W. V.	B. A.	Minister	Centerton, Ark.
Ziegler, Ella	B. A.	Teacher	Harrison, Ark.

Class of 1911.

Abbott, T. O.	B. A.		
Alphin, J. H.	B. A.		El Dorado, Ark.
Ashley, J. C.	B. A.	Member-elect, Ark. State Senate	Vilonia, Ark.
Bagley, H. S.	B. E. E.	Westinghouse	Pittsburg, Pa.
Barton, H. B.	B. M. E.	Irrigation	Oak Dale, Cal

Name.	Degree.	Occupation.	Address.
Bateman, J. T.	B. A.		Hartford, Ark.
Baxendale, John	B. M. E.		Lehigh, Okla.
Beane, Ada	B. A.		
Bennett, Fred.	B. C. E.	Civil Engr.	Dennison, Texas.
Black, Lanie	B. A.		Corning, Ark.
Blackford, Mary	B. A.	Chicago U.	Chicago, Ill.
Blakemore, W. A.	B. C. E.	With M. O. & G. Ry.	Muskogee, Okla.
Bradford, C. G.	B. A.	Grad. Student N. Y. U.	New York City.
Brewer, O. C.	B. A.	Texarkana H. S.	Texarkana, Ark.
Brown, C. J.	B. C. E.	With Hutchinson-McCrary	Marietta, O.
Burnside, Aurelle	B. A.		
Carden, W. M.	B. A.		Malvern, Ark.
Carruth, R. H.	B. A.	Teacher, H. S.	Warren, Ark.
Carter, Bess	B. A.		
Chandler, P. E.	B. E. E.	Westinghouse	Pittsburg, Pa.
Cole, L. R.	B. E. E.		
Couch, Nelle	B. A.	Teacher	
Creekmore, S. W.	B. A.	With Lesser-Goldman Cotton Company	St. Louis, Mo.
Dickinson, B. F.	B. M. E.	With Big Rock Stone Const. Company	Little Rock, Ark.
Dorough, W. T.	B. A.	Bookkeeper	Little Rock, Ark.
Douglas, C. H.	B. E.	Elec. Engr.	St. Louis, Mo.
Douglas, A. M.	B. S. C.		
Dyer, Reba		Teacher	
Ellis, R. S.	B. A. L. I.	Teacher	Marion, Ark.
Eoff, Dennie	B. A.		
Etheridge, Y. W.	B. A.		
Feldt, Louise	B. A.		
Goodwin, W. L.	B. A.	Bookkeeper	Little Rock, Ark.
Gough, Ivor	B. Mi. E.		
Guynes, W. M.	B. E.	Gen. Elec. Wks.	Schenectady, N. Y.
Hall, M. G.	B. A.		
Hall, M. Z.	B. A.	Law Student	Fayetteville, Ark.
Hatchett, M. P.	B. A.	Teacher	
Highfill, R. D.	B. A.	Teacher, H. S.	Argenta, Ark.
Hogue, Effa	B. A.	Student, A. U.	Fayetteville, Ark.
Hon, Lucy	B. A.	Teacher, H. S.	
Hughes, J. L.	B. A.		
Humphreys, H. H.	B. C. E.	Civil Engr.	Pine Bluff, Ark.
Hutchins, R. M.	B. A.	Deputy Commissioner of Mines, Agri. and Mfg.	Little Rock, Ark.
Hyatt, C. L.	B. A.		
King, Harry	B. A.	Student, Vanderbilt U.	Nashville, Tenn.
Knox, Virginia	B. A.		Monticello, Ark.
Lee, R. B.	B. A.		
Manning, Gladys	B. A.	Mrs. H. Kirby	Little Rock, Ark.
Marks, J. A.	B. S. A.	Planter	Springdale, Ark.
Martin, H. B.	B. A.		Warren, Ark.
McCartney, Isabel	B. A.	Student, A. U.	Fayetteville, Ark.
McClain, Arthur	B. S. C.		Savannah, Ga.
Metcalf, C. H.	B. A.		
Mitchell, G. W.	B. C. E.	Drainage Engr.	Greenway, Ark.
Morris, Ben	B. A.		
Prall, Beatrice	B. A.		

Name.	Degree.	Occupation.	Address.
Rorie, Geo. C.	B. A.	Teacher	Oklahoma.
Rye, W. G.	B. E. E.		
Savage, D. L.	B. A.	Law Student, Harvard Univ.	Cambridge, Mass.
Sedwick, B. F.	B. C. E.	With B. & O. Ry.	Baltimore, Md.
Shane, J. C.	B. A.		
Sheffield, H. C.	B. A.		
Shipley, R. E.	B. C. E.		Corning, Ark.
Sly, A. G.	B. A.	Teacher, H. S.	Warren, Ark.
Smith, M. F.	B. E. E.	With Westinghouse Co.	Pittsburg, Pa.
Thomas, Maud	B. A.	Teacher	Rogers, Ark.
Thompson, Ethel	B. A.	Teacher	Warren, Ark.
Tovey, E. C.	B. C. E.	With Frisco R. R.	Springfield, Mo.
Vaughan, Rosebud	B. A.	Teacher, H. S.	De Queen, Ark.
Veazey, Julia	B. A.		Fayetteville, Ark.
Warner, Cecil	B. A.	Student, Harvard Univ.	Cambridge, Mass.
Webb, Louise	B. A.	Teacher	Oklahoma.
Wheeler, S. B.	B. A.	Prin. Leverett School	Fayetteville, Ark.
Wilder, S. F.	B. A.		Fort Smith, Ark.
Wilkerson, S. C.	B. E. E.		
Williams, W. Q.	B. M. E.	Foos Gas Engine Co.	Springfield, Ohio.
Wilson, T. R.	B. C. E.		
Wilson, T. C.	B. A.		
Wolf, Bess	B. A.	Teacher	Parkdale, Ark.
Wright, Edna	B. A.	Teacher	Oklahoma.
Yocum, Henry	B. A.	Student, Washington and Lee University	Lexington, Va.

ALPHABETICAL LIST OF OFFICERS AND STUDENTS OF THE DEPARTMENTS AT FAYETTEVILLE

Abbreviations.—Adj. Prof., Adjunct Professor; *Assoc. Prof.*, Associate Professor; *C.*, Conservatory of Music and Arts; *Fr.*, Freshman; *Grad.*, Graduate; *Instr.*, Instructor; *Jr.*, Junior; *Prof.*, Professor; *Sh. E.*, Short Course in Engineering; *So.*, Sophomore; *Sp.*, Special; *Sr.*, Senior; *Un.*, Unclassified. For students by classes, see p. 217, *et seq.*; for officers, see p. 5, *et seq.*

Achenbach, C. H., *Jr.*
Acree, W. F., *So.*
Adams, C. F., *Exp. Sta.Dir.*
Adams, Elizabeth, *Fr.*
Adams, Noah, *Fr.*
Allen, B. F., *Sr.*
Anderson, L. I., *Jr.*
Andrews, Molloy, *Fr.*
Armitage, J. G., *Sr.*
Armitage, Marguerite, *So.*
Armstrong, A. B., *Fr.*
Arnof, J. M., *Fr.*
Atkinson, Elza R., *Jr.*
Austin, Judson, *Fr.*
Austin, Mary L., *Libr.*
Autrey, J. L., *Fr.*
Badinelli, E. B., *Sr.*
Baker, M. S., *Fr.*
Baker, C. B., *Fr.*
Banta, Katherine, *C.*
Barr, Frank, *Band Instr.*
Barrett, Grace P., *C.*
Barrett, Euritha, *Fr.*
Barry, W. T., *So.*
Barton, W. H., *Jr.*
Baker, O. L., *Sp.*
Batten, John T., *So.*
Bateman, Mary C., *Instr.*
Bayley, P. L., *C.*
Beane, Eunice, *So.*
Becker, Geo G., *Adj. Prof.*
Bell, Zella Fay, *C.*
Bell, Susan T., *Fr.*
Bell, J. E., *Fr.*
Belts, Florence, *Jr.*
Benson, L. P., *Fr.*
Bentley, O. K., *Fr.*
Benton, S. R., *Sp.*
Berry, Margaret W., *So.*
Berry, Eula M., *Fr.*
Berry, B. M., *Fr.*
Bethel, Claude, *Sp.*
Bezdek, Hugo, *Ath. Dir.*
Bird, Nelle, *C.*
Blackmun, Ora, *So.*
Blackshare, Lockie, D., *Jr.*
Blackshare, Lena E., *Sr.*
Blackshare, Jennie L., *Sr.*
Blackshare, J. O., *Fr.*
Blackshire, Deane, *Jr.*
Blair, Florence, *C.*
Blakely, L. R., *Jr.*
Blakely, J. T., *Sp.*
Bland, Rose, *Instr.*
Bland, Alice L., *Fr.*
Bledsoe, Alva L., *Jr.*
Bonner, E. C., *Fr.*
Booth, F. E., *So.*
Bowen, H. R., *Sp.*
Bowen, Ed., *So.*
Bowers, M. D., *So.*
Boyd, Frances L., *So.*
Bradford, W. E., *Sp.*
Bradley, H. H., *So.*
Bransford, W. H., *Jr.*
Brasher, L. B., *Fr.*
Brennan, Dorthy K., *C.*
Brereton, Blanche, *Jr.*
Brewer, M. H., *Sr.*
Briant, J. S., *Fr.*
Briscoe, W. M., *Prof.*
Briscoe, Eileen, *C.*
Brough, C. H., *Prof.*
Brown, J. R., *Jr.*
Brown, Epps, *Fr.*
Browne, L. W., *Fr.*
Browning, J. M., *So.*
Bryan, L. S., *Sp.*
Bryan, Frank, *Sr.*
Bryant, Anna C., *So.*
Buchanan, Henrietta E., *C.*
Buckely, V. B., *Sr.*
Buckley, S. S., *Jr.*
Buerkle, Minnie, E. *C.*
Buerkle, J. G., *So.*
Bullock, T. J., *Jr.*
Bunn, E. S., *Fr.*
Burns, Eunice, *Matron*
Burrow, D. H., *Sp.*
Cammack, G. S., *Fr.*
Campbell, Joe, *Sp.*
Campbell, G. M., *So.*
Cantrell, W. T., *Jr.*
Carl, F. C., *Sp.*
Carnes, G. C., *Sp.*
Carothers, Neil, *Assoc. Prof.*
Carrigan, Annie M., *So.*
Carroll, C. G., *Prof.*
Carroll, H. A. D., *So.*
Carter, R. D., *Comdt.*
Carter, C. G., *So.*
Carter, Ollie, *Sr.*
Casey, J. E., *So.*
Castelberry, E. E., *Sp.*
Cates, Allen, *Fr.*
Caudle, R. D., *Sr.*
Cherry, J. L., *Jr.*
Childress, P. A., *Fr.*
Christopher, C., *Prof.*
Clark, Lenora D., *Fr.*
Clark, M. D., *So.*
Clarke, R. T., *So.*
Clegg, J. P., *Fr.*
Cochran, Mary N., *C.*
Coffey, Jewell Y., *C.*
Cole, C. W., *Sp.*
Coleman, Verna M., *Fr.*

Collins Nell, *C.*
Collins, J. H., *Jr.*
Collins, A. J., *Sp.*
Collins, Alice, *Sr.*
Coventon, J. W., *So.*
Cook, E. T., *So.*
Cooper, R. R., *Fr.*
Corbell, O. M., *Sr.*
Cornelius, T. S., *Fr.*
Cotnam, T. T., *So.*
Cox, Nettie, *C.*
Cravens, W. C., *Sec'y Board.*
Crockett, Fred, *So.*
Crippin, W. T., *Engr.*
Croom, S. G., *So.*
Crowley, F. A., *Fr.*
Croxdale, E. W., *Sp.*
Croxdale, E. T., *Fr.*
Crumpler, S. A., *So.*
Cypert, A. B., *Sr.*
Daltroff, Lee, *Fr.*
Daniel, Fannie, *So.*
Daniel, Lucy M., *Jr.*
Danner, John, *Fr.*
Davenport, Bessie G., *So.*
Davidson, E. C., *Fr.*
Davis, Mary A., *Dean of Women.*
Davis, W. C., *Sr.*
Davis, R. L., *Jr.*
Davis, Rachel, *Jr.*
Davis, Lucy, *Sp.*
Davis, Brickelle, *C.*
Davis, C. M., *Sp.*
Davis, Lucile, *Sp.*
Daubs, Minnie B., *Sp.*
Deal, W. L., *So.*
Dean, H. W., *Instr.*
Deane, Madeline A., *Jr.*
Deane, G. F., *Sp.*
Decker, K., *C.*
Deeg, Lena, E. *Jr.*
Dennis, E. E., *So.*
Depue, Dewitt, *Instr.*
Derby, A. D., *Fr.*
Devanney, Hallie, *So.*
Dickinson, R., *Sp.*
Dickinson, J. A., *Sr.*
Dickson, B. W., *Y. M. C. A. Secy.*
Dillahunty, E. P., *Sp.*
Dinwiddie, R. R., *Prof.*
Dinwiddie, J. A., *Jr.*
Dodge, Alice, *C.*
Dortch, G. L., *Sr.*
Dotson, Katie E., *So.*
Douglass, W. E., *Jr.*
Douglas, E. P., *So.*
Dowdle, R. G., *So.*
Downs, R. R., *So.*
Driver, M. W., *Fr.*
Droke, G. W., *Prof.*
Droke, M. J., *Instr.*
Droke, Mary I., *Jr.*
Drover, W. H., *Jr.*
Duckworth, W. E., *Instr.*
Duncan, W. W., *Jr.*
Duncan, E. E., *Fr.*
Dunlap, R. D., *So.*
Dunn, B. J., *Assoc. Prof.*
Dunn, W. A., *Fr.*
Dunn, J. H., *Fr.*
Dunn, J. C., *Fr.*
Dunn, H. W., *So.*
Dyer, C. L., *Fr.*
Earl, R. D., *So.*
Ellis, Mrs. Edith, *C.*
Ellis, Elizabeth E., *So.*
Ellis, R. A., *So.*
Emerson, H. A., *Sp.*
English, E. H., *So.*
Estes, G. D., *Jr.*
Evans, D. J., *Sr.*
Evans, W. V., Jr.
Farris, R. F., *Fr.*
Ferguson, J. A., *Fr.*
Files, F. W., *Jr.*
Fletcher, Neill, *So.*
Flinn, H. H., *Sr.*
Forbes, N. M., *Fr.*
Forrest, L. S., *Fr.*
Forwood, Eleanor, *Fr.*
Freeman, J. T., *Fr.*
Fuller, Willie, *Fr.*
Funk, Gladys, *So.*
Futrall, J. C., *Prof.*
Galbraith, Elizabeth, *Instr*
Galloway, Margaret, *C.*
Gann, Irl, *C.*
Gardner, W. B., *So.*
Garrett, C. W., *Fr.*
Garrett, Bertha K., *C.*
Garvin, Cathleen M., *So.*
Gates, D. A., *Sr.*
Gaughan, J. E., *Grad.*
Gerard, A. S., *Fr.*
Gerig, F. A., *Jr.*
Gibson, Ruth, *Fr.*
Gibson, J. M., *Fr.*
Gilliam, T. E., *Fr.*
Gilliam, E. B., *So.*
Gist, J. E., *Jr.*
Gladson, W. N., *Prof.*
Gladson, Hazel W., *Jr.*
Gladson, Marion L., *So.*
Glass, B. H., *Sp.*
Goode, C. T., *Instr.*
Gow, R. M., *Adj. Prof.*
Graham, J. J., *So.*
Graham, Esther, *C.*
Graves, Hester, *C.*
Green, W. E., *Fr.*
Green, W. B., *Fr.*
Green, T. A., *Sr.*
Greenfield, Walter, *Sp.*
Greever, G. E., *Assoc Prof.*
Gregg, R. C., *Fr.*
Gregg, Pansie, *Fr.*
Greig, J. K., *Fr.*
Greskam, G. G., *So.*
Greig, Star. *Jr.*,
Grimes, O. E., *Sp.*
Grimstead, Montana, *C.*
Goodson, H. W., *Fr.*
Gordon, J. H., *Fr.*
Goss, A. L., *So.*
Guthrie, J. M., *Fr.*
Guynes, W. M., *Grad.*
Hackleman, E. L., *So.*
Hackleman, L. L., *So.*
Hackworth, P. D., *So.*
Halbrook, C. B., *So.*
Hale, J. J., *Fr.*
Hall, W. L., *Fr.*
Hall, Virginia, *C.*
Hall, Marguerite E., *C.*
Hollabaugh, Essie A., *So.*
Hamberg, E. S., *So.*
Hamby, L. C., *Fr.*
Hamer, W. P., *Fr.*
Hamilton, Edith E., *Fr.*
Hamilton, A. C., *Jr.*

Hamilton, A. B., *So.*
Harding, A. M., *Assoc. Prof.*
Harding, R. C., *Fr.*
Hargis, Mary G., *Instr.*
Harlan, E. T., *Sr.*
Harris, Ruth, *C.*
Harris, Mary A., *Fr.*
Harris, Martha, *Jr.*
Harris, Eutha, *Sr.*
Harrison, J. F., *Sr.*
Harrison, G. C., *Sr.*
Harvey, Robin, *Fr.*
Harvey G. C., *Fr.*
Harville, A. W., *So.*
Hay, Elise, *C.*
Hayhurst, Paul, *Prof.*
Hays, E. T., *Sr.*
Hays, C. W., *Jr.*
Hayden, R. E., *Fr.*
Hazlewood, W. G., *So.*
Heagler, A. E., *So.*
Hedrick, G. E., *Fr.*
Hemphill, Kate A., *So.*
Henry, Lee Roy, *Fr.*
Henry, E. A., *So.*
Henry, D. C., *Fr.*
Herndon, Johnnie, *Fr.*
Herring, W. C., *Jr.*
Hervey, T. E., *Fr.*
Hewitt, J. L., *Prof.*
Hewitt, Sudie, *C.*
Hewitt, Eunice, *C.*
Higgs, J. W., *So.*
Highfill, LeeRoy, *Fr.*
Highfill, H. H., *Sr.*
Hight, Alice J., *C.*
Hilt, Emma F., *Sr.*
Hilton, Esther C., *Fr.*
Hinds, Lois, *Fr.*
Hinton, L. E., *Sp.*
Hirsch, R., *Fr.*
Hirst, C. M., *Sr.*
Hogue, Effa L., *Sr.*
Holbrook, Virginia, *So.*
Holcombe, Lillian, *So.*
Holloway, C. V., *Sr.*
Holt, Mitchell L., *Fr.*
Holt, Harry C., *So.*
Holt, B. P., *Fr.*
Holtzclaw, Henry, *Jr.*
Hon, Mabel F., *So.*
Hopper, I. C., *Fr.*
Hopper, D. C., *Fr.*
Hornberger, B. B., *Fr.*
Hoskins, L. H., *Fr.*
House, Archie, *So.*
Hoyt, Blanche, *C'*
Hulen, E. E., *So.*
Huber, C. A., *Sp.*
Hudson, Inez, *C.*
Hudson, C. S., *Fr.*
Hughes, Verda, *C.*
Hughes, Jewell C., *Fr.*
Hughes, Annie I., *Fr.*
Hulse, L. R., *Sr.*
Humphreys, Smith, *Sp.*
Humpherys, F. A., *Fr.*
Hunter, L. W., *Jr.*
Huntly, P. C. *Adj. Pro.*
Huntly, B. W., *So.*
Hurlock, Leslie, *Fr.*
Hurst, J. D., *Jr.*
Ingram, F. J., *Sp.*
Irby, N. M., *Fr.*
Izard, Letha C., *C.*
Jacks, R. D., *C.*
Jackson, T. A., *Sr.*
Jackson, A. R., *Sp.*
Jamison, Claudine E., *Fr.*
Johnson, Nelle, *Fr.*
Johnson, W. S., *Prof.*
Johnson, J. P., *Sp.*
Joiner, J. W., *Sr.*
Jones, Maurice F., *Fr.*
Jones, V. L., *Assoc. Prof.*
Jones, Leah T., *Sr.*
Jones, Ellen, *C.*
Jones, Curtis, *Jr.*
Jordan, Floos, *Sr.*
Jordan, Mary E., *So.*
Jordan, Ida, *Fr.*
Jordan, Ettalee, *Fr.*
Joyner, J. E., *Sp.*
Keith, M. N., *Fr.*
Keith, A. A., *Sp.*
Kelly, C. Q., *Fr.*
Kelton, Fannie, *Jr.*
Kennard. R. P., *Fr.*
Kennedy, W. E., *Fr.*
Killough, W. N., *So.*
Kimbrough, Ethel, *Fr.*
King, Sarah E., *Grad.*
King, Arthur, *Sr.*
Kinsworthy, B. E., *Jr.*
Kirby, A. C., *Jr.*
Kirby, E. W., *Sp.*
Knerr, Bertha I., *Fr.*
Knock, J. J., *Prof.*
Knoch, E. A., *Fr.*
Knott, V. P., *Assoc. Prof.*
Knott, J. C., *Sp.*
Knox, R. C., *Sr.*
Lake, J. P., *Fr.*
Lake, E. C., *So.*
Langston, Zora L., *Jr.*
Laser, Lucile, *So.*
Lasseter, W. C., *Adj. Prof.*
Laughinghouse N. R., *Sr.*
Lawson, Lillian, *Jr.*
Lea, R. A., *Sp.*
Lee, S. H., *Sr.*
Lee, Annie L., *Fr.*
Lenker, Leslie E., *Sr.*
Lentz, M. C. G., *Assoc. Prof.*
Letzig, F. W., *Fr.*
Leverett, Madge, *C.*
Leverett, Percy, *Fr.*
Lighton, Dorothy R., *C.*
Lilly, Clara P., *Fr.*
Lindsey, V. T., *Sp.*
Loomis, Vena B., *So.*
Love, M. L., *Sp.*
Lucas, Camille K., *Jr.*
Lucas, Julia M., *C.*
Lyon, T. A., *Fr.*
Magali, J. F., *Fr.*
Magness, P. G., *So.*
Majors, J. L., *Fr.*
Malpe, J. M., *Fr.*
Marinoni, A., *Prof.*
Marsh, J. E., *Jr.*
Marshall, Irma, *Sr.*
Martin, Aubert, *Sr.*
Martin, Alma, *C.*
Mather, Juliette E., *Fr.*
Mathews, Jim P., *So.*
May, R. V., *Sp.*
Mayes, Ruth, *Jr.*
Meriwether, L. H., *Sr.*
Merrill, Mabel I., *So.*

Metcalf, R. J., *So.*
Metzger, Evelyn, *Instr.*
Meyer, F. C., *Sp.*
Miles, W. C., *Sr.*
Mills, E. F., *Jr.*
Milligan, Hazel M., *Fr.*
Millwee, F. B., *Fr.*
Mitchell, B., *Adj. Prof.*
Mitchell, Fred, *So.*
Mitchell, Urcy M., *C.*
Miser, H. D., *Grad.*
Mixon, Harvey, *So.*
Moody, W. F., *Sr.*
Moore, V. H., *Fr.*
Moore, S. W., *Jr.*
Moore, Lyle G., *C.*
Moore, Katisue, *Fr.*
Moore, J. G., *Jr.*
Moore, G. B., *Fr.*
Morehead, Louise, *So.*
Morrison, A. B., *Jr.*
Morrow, H. E., *Adj. Prof.*
Moss, Mildred, M., *Er.*
Moss, L. R., *So.*
Morton, Winifred, *C.*
Morton, Jennie, *Sr.*
Mull, Thos., *Sp.*
Murphy, Bell, *C.*
Murphy, Jeffie, *C.*
McBride, Meta. L., *Sp.*
McCain, W. E., *Fr.*
McCartney, Isabelle, *C.*
McCartney, Ruth, *Sr.*
McCarty, R. O., *Jr.*
McCloy, Robbin, *Sp.*
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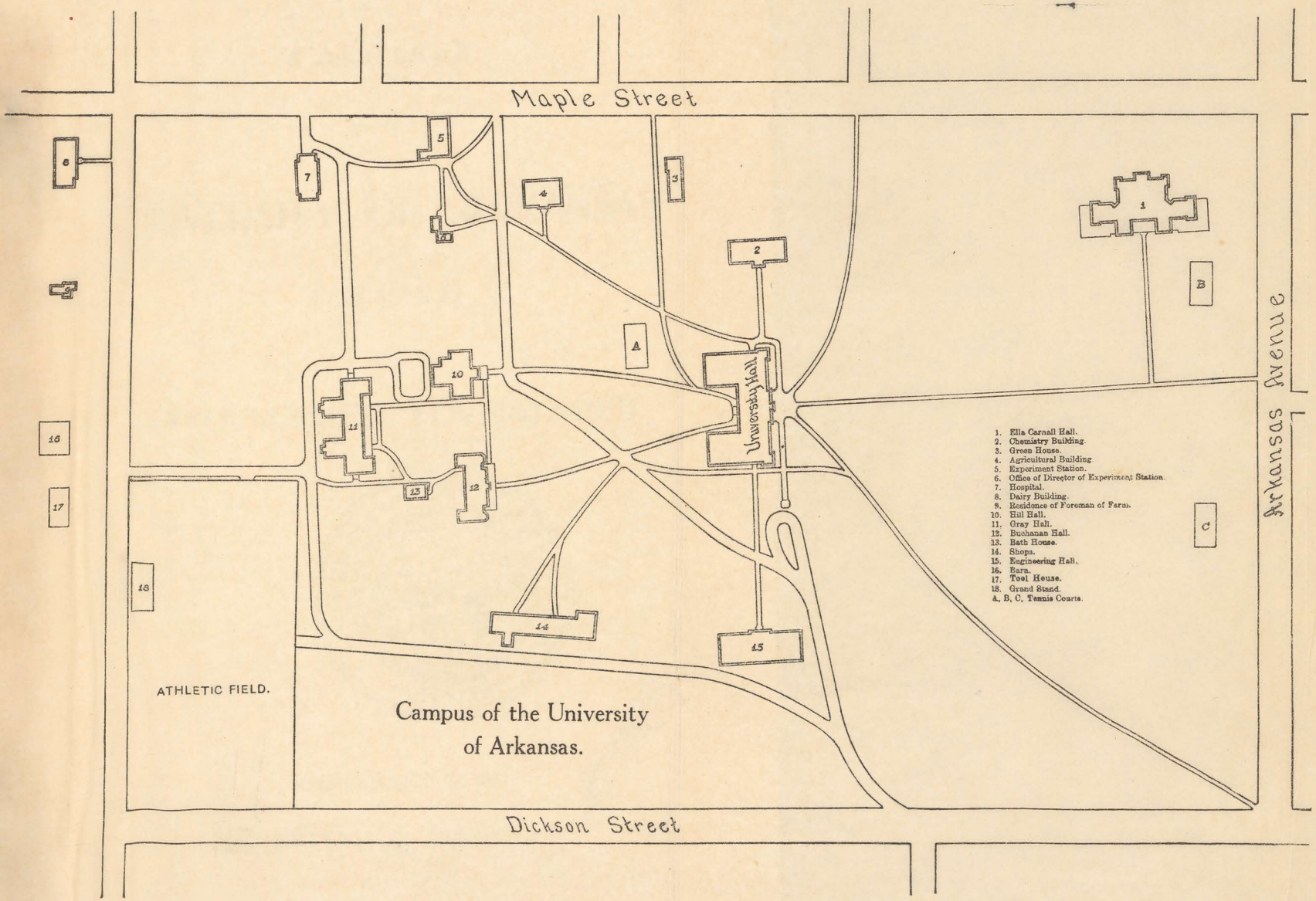

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